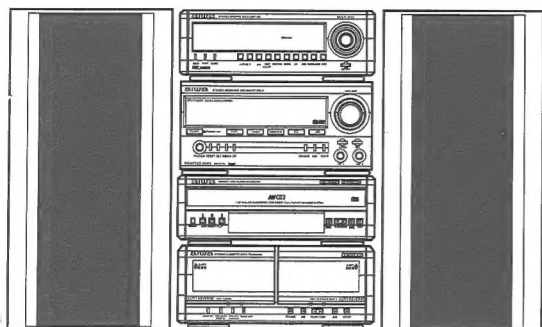


aiwa



XR-H1100 XR-AVH1200



COMPACT DISC STEREO
SYSTEM

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 4ZG-1 Z3NDSHM
- TYPE :EZ, K, HR

REVISION PUBLISHING

SYSTEM	AMPLIFIER	GRAPHIC EQUALIZER	CASSETTE DECK	CD PLAYER	SPEAKERS	REMOTE CONTROL
XR-H1100	MX-NH1100	GE-NH1100	FX-NH1100	DX-NH1100	SX-NAVH1200	RC-ZAS04
XR-AVH1200	MX-NAVH1200	GE-NAVH1200			SX-NAVH1200 SX-CR677	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XR-H1100 (EZ,K,HR), S/M Code No. 09-994-411-6T1, XR-AVH1200 (HR), S/M Code No. 09-995-411-7T1 and XR-AVH1200 (EZ,K), S/M Code No. 09-996-411-7T2.
- If requiring information about the CD mechanism, see Service Manual of 4ZG-1 (S/M Code No.09-992-325-4N2).

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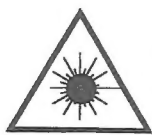
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PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

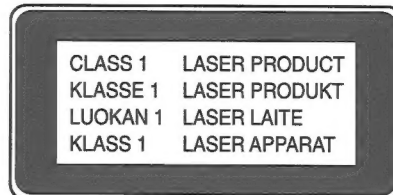
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.



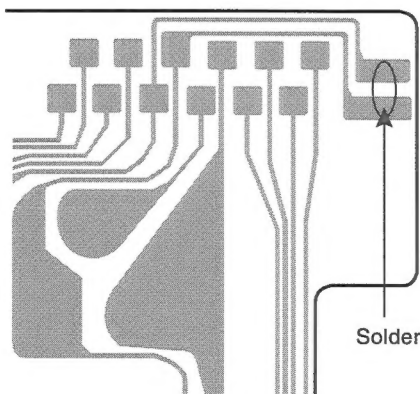
Precaution to replace Optical block

(KSS - 213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in right figure.

PICK-UP Assy P.C.B



SPECIFICATIONS <XR-H1100>

<STEREO RECEIVER MX-NH1100>

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	EZ,K: 16.8 dBf HR: 13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

<LW Tuner section><EZ,K>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

<SW Tuner section><HR>

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

<Amplifier section>

Power output	Rated: 65 W + 65 W EZ,K: (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) HR: (1 kHz, T.H.D. 1 %, 6 ohms) Reference: 80 W + 80 W EZ,K: (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) HR: (1 kHz, T.H.D. 10 %, 6 ohms) EZ,K: DIN MUSIC POWER: 145 W + 145 W 0.1 % (8 W, 1 kHz, 6 ohms, DIN AUDIO)
Total harmonic distortion	0.1 % (8 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 310 mV (adjustable) MD: 310 mV (adjustable) MIC 1, MIC 2: 1.2 mV (10 kohms)
Outputs	LINE OUT: 175 mV SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms PHONES (stereo jack): accepts headphones of 32 ohms or more

<General>

Power requirements	EZ: 230 V AC, 50 Hz K: 230–240 V AC, 50 Hz HR: 120 V/ 220V–230V/ 240 V AC switchable 50/60 Hz
Power consumption	135 W
Dimensions of main unit (W x H x D)	284 x 122 x 337 mm
Weight of main unit	5.9 kg

<CASSETTE DECK FX-NH1100>

Track format	4 tracks, 2 channels stereo
Frequency response	Type II (high/CrO ₂) tape: 50 Hz – 16000 Hz Type I (normal) tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, Type II tape peak level)
Recording system	AC bias, AC erase
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback head x 1, erase head x 1
Dimensions of main unit (W x H x D)	284 x 122 x 315 mm
Weight of main unit	2.0 kg

<CD PLAYER DX-NH1100>


Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable
Dimensions of main unit (W x H x D)	284 x 101 x 315 mm
Weight of main unit	2.3 kg

<GRAPHIC EQUALIZER GE-NH1100>

Dimensions of main unit (W x H x D)	284x 101 x 328 mm
Weight	1.7 kg

<SPEAKER SYSTEM SX-NAVH1200>

Cabinet type	3 way (magnetic shielded type)
Speakers	Woofer: 140 mm cone type x 2 Tweeter: 60 mm cone type Super tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	88 dB/W/m
Dimensions (W x H x D)	250 x 443 x 250 mm
Weight	EZ,K: 7.0 kg HR: 6.0 kg

- Design and specifications are subject to change without notice.
- Manufactured under license from Dolby Laboratories Licensing Corporation.
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- The word “BBE” and the “BBE symbol” are trademarks of BBE Sound, Inc.
Under license from BBE Sound, Inc.

SPECIFICATIONS <XR-AVH1200>

<STEREO RECEIVER MX-NAVH1200>

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	EZ,K: 16.8 dBf HR: 13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<LW Tuner section><EZ,K>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

<SW Tuner section><HR>

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

<Amplifier section>

Power output	Front Rated: 65 W + 65 W EZ,K: (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) HR: (1 kHz, T.H.D. 1 %, 6 ohms) Reference: 80 W + 80 W EZ,K: (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) HR: (1 kHz, T.H.D. 10 %, 6 ohms) EZ,K: DIN MUSIC POWER: 150 W + 150 W Rear (Surround) Rated: 20 W + 20 W EZ,K: (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) HR: (1 kHz, T.H.D. 1 %, 8 ohms) Reference: 25 W + 25 W EZ,K: (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) HR: (1 kHz, T.H.D. 10 %, 8 ohms) EZ,K: DIN MUSIC POWER: 46 W + 46 W Center Rated: 20 W EZ,K: (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) HR: (1 kHz, T.H.D. 1 %, 8 ohms) Reference: 25 W EZ,K: (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) HR: (1 kHz, T.H.D. 10 %, 8 ohms) EZ,K: DIN MUSIC POWER: 46 W EZ,K: 0.1 % (8 W, 1 kHz, 6 ohms, DIN AUDIO/Front) HR: 0.1 % (8 W, 1 kHz, 6 ohms, DIN AUDIO)
Total harmonic distortion	
Inputs	VIDEO/AUX: 310 mV (adjustable) MD: 310 mV (adjustable) MIC 1, MIC 2: 1.2 mV (10 kohms) 5.1CH INPUT FRONT (L,R): 400 mV SURROUND (L,R): 400 mV CENTER: 400 mV SUB WOOFER: 400 mV LINE OUT: 175 mV SUB WOOFER<EZ,K>: 1V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms CENTER SPEAKER<EZ,K>: accept speakers of 8 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more
Outputs	

<General>

Power requirements	EZ,K: 230 V AC, 50 Hz HR: 120 V/ 220V-230V/ 240 V AC switchable 50/60 Hz
Power consumption	EZ,HR: 155 W K: 160 W
Dimensions of main unit (W x H x D)	284 x 122 x 387 mm
Weight of main unit	5.9 kg

<CASSETTE DECK FX-NH1100>

Track format	4 tracks, 2 channels stereo
Frequency response	Type II (high/CrO ₂) tape: 50 Hz – 16000 Hz Type I (normal) tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, Type II tape peak level)
Recording system	AC bias, AC erase
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback head x 1, erase head x 1
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Weight of main unit	2.0 kg

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Impedance	6 ohms
Output sound pressure level	88 dB/W/m
Dimensions (W x H x D)	250 x 443 x 250 mm
Weight	EZ,K: 7.0 kg HR: 6.0 kg

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Under license from BBE Sound, Inc.

MX-NH1100/NAVH1200

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				87-A40-002-080			ZENER,MTZJ5.1C
	8Z-SP1-605-010		IC,UPD780228GF-034-3BA	87-A40-234-080			ZENER,MTZJ5.6A
	87-A20-914-010		IC,SPS-442-1-F	87-A40-442-080			ZENER,MTZJ9.1A
	87-A21-202-040		C-IC,M62445AFP	87-A40-270-080			C-DIODE MC2838
	87-A20-804-040		C-IC,NJM2152M	87-A40-500-080			ZENER,MTZJ30B
	87-017-888-080		IC,NJM4558MD	MAIN C.B			
	87-A20-869-040		C-IC,M62449FP	C101	87-010-917-090		CAP,E 3300-50 M SMG
	87-070-127-110		IC,LC72131 D	C102	87-010-917-090		CAP,E 3300-50 M SMG
	87-A20-913-010		IC,LA1837NL	C103	87-016-658-090		CAP,E 4700-35 SMG
	87-A21-051-040		C-IC,BU9990-03FS	C104	87-016-658-090		CAP,E 4700-35 SMG
	87-A21-097-040		C-IC,M62463AFP<1200>	C105	87-012-368-080		C-CAP,S 0.1-50 F
	87-A21-015-040		C-IC,M62491FP<1200>	C106	87-012-368-080		C-CAP,S 0.1-50 F
	87-A21-018-040		C-IC,M65849BFP631D	C107	87-012-368-080		C-CAP,S 0.1-50 F
	87-A20-440-040		C-IC,BU1920FS	C108	87-012-368-080		C-CAP,S 0.1-50 F
TRANSISTOR				C109	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-026-245-080		TR,DTC114ES	C110	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-026-610-080		TR,KTC3198GR	C111	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-076-080		C-TR,2SC3052F	C112	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-083-080		TR,CSD1489B	C113	87-010-247-080		CAP, ELECT 100-50V
	87-A30-075-080		C-TR,2SA1235F	C114	87-010-385-080		CAP, ELECT 220-25V
	87-026-609-080		TR,KTA1266GR	C115	87-010-385-080		CAP, ELECT 220-25V
	89-213-702-010		TR,2SB1370 (1.8W)	C116	87-010-247-080		CAP, ELECT 100-50V
	87-A30-087-080		C-FET,2SK2158	C117	87-010-430-080		CAP, ELECT 100-63
	87-A30-257-080		C-TR,2SD1306E	C118	87-010-263-080		CAP, ELECT 100-10V
	87-A30-268-040		C-TR,2SA1514K(S)	C119	87-010-260-080		CAP, ELECT 47-25V
	87-A30-190-080		TR,CC5551	C120	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-071-080		C-TR,RT1N 144C	C121	87-010-174-080		CAP CHIP SL470P (K)
	87-A30-106-070		C-TR,CMBT5551	C122	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-072-080		C-TR,RT1P 144C	C123	87-010-247-080		CAP, ELECT 100-50V
	87-A30-073-080		C-TR,RT1N 141C	C124	87-010-112-080		CAP, ELECT 100-16V
	87-A30-074-080		C-TR,RT1P 141C	C125	87-010-235-080		CAP,E 470-16 SME
	87-026-263-080		C-TR,RN1410	C130	87-010-399-090		CAP,E 3300-35 SME<1200>
	89-333-266-080		C-TR,2SC3326B	C131	87-010-399-090		CAP,E 3300-35 SME<1200>
	89-112-965-080		TR,2SA1296 (0.75W)	C132	87-012-368-080		C-CAP,S 0.1-50 F<1200>
	87-026-226-080		CHIP-TR,DTA143EK	C133	87-012-368-080		C-CAP,S 0.1-50 F<1200>
	87-A30-196-080		TR,2SC4115SRS	C190	87-010-196-080		CHIP CAPACITOR,0.1-25
	89-327-143-080		TR,2SC2714 (0.1W)	C201	87-010-322-080		C-CAP,S 100P-50 CH
	87-A30-086-070		C-TR,CSD1306E	C202	87-010-322-080		C-CAP,S 100P-50 CH
	89-503-602-080		C-FET,2SK360E	C209	87-010-405-080		CAP, ELECT 10-50V
	87-A30-108-010		TR,2SB1626	C210	87-010-405-080		CAP, ELECT 10-50V
	87-A30-109-010		TR,2SD2495	C211	87-010-183-080		C-CAP,S 2700P-50 B
	87-A30-186-010		FET,2SK3053	C212	87-010-183-080		C-CAP,S 2700P-50 B
	87-A30-137-010		TR,2SD2494	C213	87-010-187-080		CAP CHIP S5600P
	87-A30-138-010		TR,2SB1625	C214	87-010-187-080		CAP CHIP S5600P
DIODE				C215	87-010-405-080		CAP, ELECT 10-50V
	87-070-274-080		DIODE,1N4003 SEM	C216	87-010-405-080		CAP, ELECT 10-50V
	87-A40-547-090		DIODE,D5SBA20	C217	87-010-408-080		CAP, ELECT 47-50V
	87-017-447-010		DIODE,GBU4DL	C218	87-010-408-080		CAP, ELECT 47-50V
	87-020-465-080		DIODE,1SS133 (110MA)	C219	87-A10-516-080		C-CAP,S 100P-200 J CH
	87-A40-468-080		C-DIODE,HSM2836CTR	C220	87-A10-516-080		C-CAP,S 100P-200 J CH
	87-A40-469-080		C-DIODE,HSM2838CTR	C221	87-016-462-080		C-CAP,S 1-16 F
	87-A40-435-080		ZENER,MTZJ30D	C222	87-016-462-080		C-CAP,S 1-16 F
	87-A40-345-080		ZENER,MTZJ10C	C223	87-010-405-080		CAP, ELECT 10-50V
	87-A40-004-080		ZENER,MTZJ16A	C226	87-010-405-080		CAP, ELECT 10-50V
	87-070-345-080		DIODE,IN4148	C227	87-010-407-080		CAP, ELECT 33-50V
	87-017-931-080		ZENER,MTZJ5.6B	C229	87-010-407-080		CAP, ELECT 33-50V
	87-A40-370-090		DIODE,RK46-P20	C230	87-010-408-080		CAP, ELECT 47-50V
	87-070-136-080		ZENER,MTZJ5.1B	C231	87-010-186-080		CAP,CHIP 4700P
	87-A40-488-080		DIODE,1SS244	C232	87-010-186-080		CAP,CHIP 4700P
	87-A40-438-080		ZENER,MTZJ4.7A	C233	87-010-401-080		CAP, ELECT 1-50V
				C234	87-010-401-080		CAP, ELECT 1-50V
				C235	87-010-196-080		CHIP CAPACITOR,0.1-25

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
C290	87-010-188-080		CAP,CHIP 6800P	C608	87-010-405-080		CAP, ELECT 10-50V	CN123	87-049-469-010		CONN,4P V	C202	87-010-264-040		CAP,E 100-10 5L
C301	87-010-402-080		CAP, ELECT 2.2-50V<1200>	C609	87-010-374-080		CAP, ELECT 47-10V	CN131	87-049-919-010		CONN,3P EH V WHT<1200>	C203	87-016-081-080		C-CAP,S 0.1-16 RK
C302	87-010-402-080		CAP, ELECT 2.2-50V<1200>	C610	87-010-374-080		CAP, ELECT 47-10V	CN601	87-099-196-010		CONN,8P 6216V<1100>	C204	87-010-981-040		CAP,E 22-35 5L SRE
C303	87-010-178-080		CHIP CAP 1000P<1200>	C611	87-010-405-080		CAP, ELECT 10-50V	CN611	87-099-194-010		CONN,6P 6216V<1200>	C205	87-010-194-080		CAP, CHIP 0.047
C304	87-010-178-080		CHIP CAP 1000P<1200>	C612	87-010-112-080		CAP, ELECT 100-16V	CN621	87-A60-063-010		CONN,4P V 9604S-04C<EZ,K>	C206	87-010-405-040		CAP,E 10-50
C305	87-010-404-080		CAP, ELECT 4.7-50V<1200>	C613	87-010-173-080		C-CAP,S 390P-50 SL	CN901	87-099-719-010		CONN,30P TYK-B(X)	C207	87-010-194-080		CAP, CHIP 0.047
C306	87-010-404-080		CAP, ELECT 4.7-50V<1200>	C614	87-010-173-080		C-CAP,S 390P-50 SL	CN902	87-009-877-010		CONN,9P FG	C208	87-A10-189-040		CAP,E 220-10
C307	87-010-322-080		C-CAP,S 100P-50 CH<1200>	C668	87-010-190-080		S CHIP F 0.01	CN903	87-009-063-010		CONNECTOR 11P	C209	87-010-071-040		CAP,E 1-50 M 5L SRE
C308	87-010-322-080		C-CAP,S 100P-50 CH<1200>	C701	87-010-402-080		CAP, ELECT 2.2-50V	CN906	87-A60-058-010		CONN,10P V 9604S-10C	C211	87-012-140-080		CAP 470P
C309	87-010-405-080		CAP, ELECT 10-50V<1200>	C702	87-010-402-080		CAP, ELECT 2.2-50V	CN907	87-A60-057-010		CONN,11P V 9604S-11C	C220	87-016-669-080		C-CAP,S 0.1-25 K B
C310	87-010-405-080		CAP, ELECT 10-50V<1200>	C703	87-016-669-080		C-CAP,S 0.1-25 K B	CN951	87-A60-109-010		CONN,2P V S2M-2W	C221	87-016-669-080		C-CAP,S 0.1-25 K B
C313	87-010-260-080		CAP, ELECT 47-25V<1200>	C704	87-016-669-080		C-CAP,S 0.1-25 K B	FB179	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>	C222	87-010-401-040		CAP,E 1-50 SME
C314	87-010-260-080		CAP, ELECT 47-25V<1200>	C705	87-016-460-080		C-CAP,S 0.22-16 B	FB501	87-003-223-010		FERRITE BEAD BLO2RN2	C241	87-010-178-080		CHIP CAP 1000P
C315	87-A10-596-080		C-CAP,S 100P-100 J CH<1200>	C706	87-016-460-080		C-CAP,S 0.22-16 B	FB503	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>	C242	87-010-318-080		C-CAP,S 47P-50 CH
C316	87-A10-596-080		C-CAP,S 100P-100 J CH<1200>	C707	87-012-365-080		C-CAP,S 0.027-25VBK	FB504	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>	C243	87-010-314-080		C-CAP,S 22P-50V
C317	87-010-544-080		CAP, ELECT 0.1-50V<1200>	C708	87-012-365-080		C-CAP,S 0.027-25VBK	FB901	87-008-372-080		FILTER,EMI BL OIRNI	C244	87-010-316-080		C-CAP,S 33P-50 CH
C318	87-010-544-080		CAP, ELECT 0.1-50V<1200>	C709	87-010-956-080		CHIP-CAP,S 0.068-25B	FB902	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>	C247	87-016-669-080		C-CAP,S 0.1-25 K B
C319	87-010-182-080		C-CAP,S 2200P-50 B<1200>	C710	87-010-956-080		CHIP-CAP,S 0.068-25B	FB903	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>	C248	87-010-192-080		C-CAP,S 0.022-50 F
C321	87-012-145-080		CAP, CHIP S 270P CH<1200>	C711	87-010-197-080		CAP, CHIP 0.01 DM	J901	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM<1200>	C251	87-010-197-080		CAP, CHIP 0.01 DM
C322	87-012-145-080		CAP, CHIP S 270P CH<1200>	C712	87-010-197-080		CAP, CHIP 0.01 DM	J902	87-A60-617-010		TERMINAL,SP 4P (MSC)	C252	87-010-197-080		CAP, CHIP 0.01 DM
C323	87-016-462-080		C-CAP,S 1-16 F<1200>	C713	87-010-198-080		CAP, CHIP 0.022	J903	87-A60-653-010		JACK,PIN 4P BLK/BLK<1100>	C253	87-A10-189-040		CAP,E 220-10
C324	87-016-462-080		C-CAP,S 1-16 F<1200>	C714	87-010-198-080		CAP, CHIP 0.022	J903	87-A60-652-010		JACK,PIN 4P ORN/BLK<1200>	C254	87-010-197-080		CAP, CHIP 0.01 DM
C351	87-010-402-080		CAP, ELECT 2.2-50V<1200>	C715	87-010-183-080		C-CAP,S 2700P-50 B	J904	87-A60-684-010		JACK,PIN 6P OR/BLK/RED<1200>	C255	87-018-134-080		CAPACITOR,TC-U 0.01-16
C352	87-010-178-080		CHIP CAP 1000P<1200>	C716	87-010-183-080		C-CAP,S 2700P-50 B	J905	87-A60-658-010		JACK,PIN 6P WHITE/RED	C301	87-010-404-040		CAP,E 4.7-50 SME
C353	87-010-404-080		CAP, ELECT 4.7-50V<1200>	C717	87-010-188-080		CAP,CHIP 6800P	L601	87-005-372-080		COIL,1MH-K LALO3<EZ,K>	C302	87-010-404-040		CAP,E 4.7-50 SME
C354	87-010-322-080		C-CAP,S 100P-50 CH<1200>	C718	87-010-188-080		CAP,CHIP 6800P	L602	87-005-372-080		COIL,1MH-K LALO3<EZ,K>	C340	87-010-175-080		CAP 560P
C355	87-010-145-080		CAP, CHIP S 270P CH<1200>	C719	87-010-178-080		CHIP CAP 1000P	L901	87-003-383-010		COIL,1UH-S	C341	87-010-175-080		CAP 560P
C355	87-010-404-080		CAP, ELECT 4.7-50V<1200EZ,K>	C720	87-010-178-080		CHIP CAP 1000P	L902	87-003-383-010		COIL,1UH-S	C342	87-010-175-080		CAP 560P
C357	87-010-260-080		CAP, ELECT 47-25V<1200>	C721	87-010-182-080		C-CAP,S 2200P-50 B	L911	87-003-383-010		COIL,1UH-S<1200>	C343	87-010-175-080		CAP 560P
C358	87-A10-596-080		C-CAP,S 100P-100 J CH<1200>	C722	87-010-182-080		C-CAP,S 2200P-50 B	L912	87-003-383-010		COIL,1UH-S<1200>	C344	87-010-175-080		CAP 560P
C359	87-010-544-080		CAP, ELECT 0.1-50V<1200>	C730	87-010-404-080		CAP, ELECT 4.7-50V	L913	87-003-383-010		COIL,1UH-S<1200>	C345	87-010-175-080		CAP 560P
C360	87-012-145-080		CAP, CHIP S 270P CH<1200>	C731	87-010-112-080		CAP, ELECT 100-16V	PIN611	87-099-570-010		CONN,13P TUC-P13P-B1<1200>	C346	87-010-175-080		CAP 560P
C361	87-016-462-080		C-CAP,S 1-16 F<1200>	C735	87-010-322-080		C-CAP,S 100P-50 CH	PIN612	87-099-568-010		CONN,11P TUC-P11P-B1<1200>	C347	87-010-175-080		CAP 560P
C381	87-010-402-080		CAP, ELECT 2.2-50V<1200>	C736	87-010-322-080		C-CAP,S 100P-50 CH	PR201	87-002-330-080		ICP-N5	C348	87-010-175-080		CAP 560P
C391	87-010-260-080		CAP, ELECT 47-25V<1200>	C737	87-010-322-080		C-CAP,S 100P-50 CH	R237	87-A00-262-080		RES,M/F 0.15-2W J	C349	87-010-175-080		CAP 560P
C503	87-010-180-080		C-CER 1500P	C738	87-010-196-080		CHIP CAPACITOR,0.1-25	R238	87-A00-262-080		RES,M/F 0.15-2W J	C601	87-010-405-040		CAP,E 10-50
C504	87-010-180-080		C-CER 1500P	C900	87-010-178-080		CHIP CAP 1000P<1200>	R239	87-A00-262-080		RES,M/F 0.15-2W J	C602	87-010-176-080		C-CAP,S 680P-50 SL
C511	87-010-405-080		CAP, ELECT 10-50V	C901	87-010-182-080		C-CAP,S 2200P-50 B	R240	87-A00-262-080		RES,M/F 0.15-2W J	C603	87-010-186-080		CAP,CHIP 4700P
C512	87-010-405-080		CAP, ELECT 10-50V	C902	87-010-182-080		C-CAP,S 2200P-50 B	R331	87-022-050-080		RES,M/F 0.22-1W J<1200>	C604	87-010-166-080		C-CAP,S 100P-50 SL
C513	87-010-404-080		CAP, ELECT 4.7-50V	C903	87-010-196-080		CHIP CAPACITOR,0.1-25	R332	87-022-050-080		RES,M/F 0.22-1W J<1200>	C605	87-010-321-080		CHIP CAPACITOR,82P(J)
C514	87-010-404-080		CAP, ELECT 4.7-50V	C904	87-010-196-080		CHIP CAPACITOR,0.1-25	R333	87-022-050-080		RES,M/F 0.22-1W J<1200>	C606	87-010-490-040		CAP, ELECT 0.1-50
C519	87-012-142-080		CAP, S 0.33-16	C905	87-010-196-080		CHIP CAPACITOR,0.1-25	R334	87-022-050-080		RES,M/F 0.22-1W J<1200>	C608	87-010-166-080		C-CAP,S 100P-50 SL
C520	87-016-669-080		C-CAP,S 0.1-25 K B	C906	87-010-196-080		CHIP CAPACITOR,0.1-25	R366	87-022-050-080		RES,M/F 0.22-1W J<1200>	C609	87-010-545-040		CAP,E 0.22-50 SME
C521	87-016-083-080		C-CAP,S 0.15-16 RK	C907	87-010-190-080		S CHIP F 0.01	R367	87-022-050-080		RES,M/F 0.22-1W J<1200>	C610	87-010-177-080		C-CAP,S 820P-50 SL
C522	87-010-183-080		C-CAP,S 2700P-50 B	C908	87-010-190-080		S CHIP F 0.01	R807	87-022-214-080		C-RES S100K-1/10WF<1200>	C611	87-010-981-040		CAP,E 22-35 5L SRE
C523	87-016-669-080		C-CAP,S 0.1-25 K B	C909	87-012-368-080		C-CAP,S 0.1-50 F	R909	87-A00-440-050		RES,220-1/2W J RP	C614	87-010-248-040		CAP,E 220-10 SME
C525	87-010-404-080		CAP, ELECT 4.7-50V	C910	87-012-368-080		C-CAP,S 0.1-50 F	R910	87-A00-440-050		RES,220-1/2W J RP	C615	87-010-075-040		CAP,E 10-16 5L<1100>
C526	87-010-404-080		CAP, ELECT 4.7-50V	C911	87-010-190-080		S CHIP F 0.01	R911	87-A00-440-050		RES,220-1/2W J RP	C615	87-010-498-040		CAP,E 10-16 GAS<1200>
C531	87-010-405-080		CAP, ELECT 10-50V	C912	87-010-190-080		S CHIP F 0.01<1200>	R912	87-A00-440-050		RES,220-1/2W J RP	C619	87-016-526-080		C-CAP,S 0.47-16 BK
C532	87-010-263-080		CAP, ELECT 100-10V	C913	87-010-182-080		C-CAP,S 2200P-50 B<1200>	R913	87-A00-527-080		RES,10-1/4W J NAT	C801	87-010-170-080		S CHIP SL 220P(K)
C533	87-010-263-080		CAP, ELECT 100-10V	C914	87-010-190-080		S CHIP F 0.01<1200(EZ,K)>	R914	87-A00-527-080		RES,10-1/4W J NAT	C802	87-010-176-080		C-CAP,S 680P-50 SL
C534	87-010-406-080		CAP, ELECT 22-50	C915	87-010-190-080		S CHIP F 0.01<1200(EZ,K)>	R915	87-A00-527-080		RES,10-1/4W J NAT	C803	87-010-187-080		CAP CHIP S5600P
C535	87-010-195-080		C-CAP,S 0.068-25 F	C916	87-010-190-080		S CHIP F 0.01<1200(EZ,K)>	R916	87-A00-527-080		RES,10-1/4W J NAT	C804	87-010-213-080		C-CAP,S 0.015-50 B
C536	87-012-142-080		CAP, S 0.33-16	C917	87-010-190-080		S CHIP F 0.01<1200(EZ,K)>	R941	87-A00-527-080		RES,10-1/4W J NAT<1200>	C806	87-010-494-040		CAP,E 1-50 GAS
C537	87-010-196-080		CHIP CAPACITOR,0.1-25	C920	87-012-157-080		C-CAP,S 330P-50 CH	R942	87-A00-527-080		RES,10-1/4W J NAT<1200>	C807	87-010-196-080		CHIP CAPACITOR,0.1-25
C538	87-010-404-080		CAP, ELECT 4.7-50V	C921	87-012-157-080		C-CAP,S 330P-50 CH	R945	87-A00-527-080		RES,10-1/4W J NAT<1200>	C809	87-012-155-080		C-CAP 180P-50CH
C539	87-010-404-080		CAP, ELECT 4.7-50V	C922	87-012-157-080		C-CAP,S 330P-50 CH	TH201	87-A91-081-080		C-THMS,100K-K 20P	C810	87-010-264-040		CAP,E 100-10 5L
C540	87-010-320-080		CHIP CAP 68P	C923	87-012-157-080		C-CAP,S 330P-50 CH	TH202	87-A91-081-080		C-THMS,100K-K 20P	C811	87-010-552-040		CAP,E 22-16 GAS
C541	87-010-320-080		CHIP CAP 68P	C924	87-012-157-080		C-CAP,S 330P-50 CH<EZ,K>	W101	8Z-SP1-627-010		F-CABLE,7P 2.5 280MM	C812	87-010-560-040		CAP,E 10-50 GAS
C542	87-010-320-080		CHIP CAP 68P	C925	87-012-157-080		C-CAP,S 330P-50 CH<EZ,K>	W601	88-908-281-110		FF-CABLE,8P-1.25 280MM<1100>	C821	87-010-318-080		C-CAP,S 47P-50 CH
C545	87-010-196-080		CHIP CAPACITOR,0.1-25	C941	87-010-196-080		CHIP CAPACITOR,0.1-25<1200>	W611	88-906-301-110		FF-CABLE,6P-1.25<1200>	C822	87-010-318-080		C-CAP,S 47P-50 CH
C547															

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C909	87-010-176-080		C-CAP,S 680P-50 SL<1100>	C808	87-010-401-080		CAP, ELECT 1-50V	C711	87-010-263-080		CAP, ELECT 100-10V	C859	87-012-286-080		CAP, U 0.01-25<EZ,K>
C910	87-012-142-080		CAP, S 0.33-16<1100>	C809	87-010-196-080		CHIP CAPACITOR,0.1-25	C712	87-010-196-080		CHIP CAPACITOR,0.1-25	C861	87-012-266-080		C-CAP,U 220P-50 B<1100(EZ,K)>
C911	87-010-196-080		CHIP CAPACITOR,0.1-25<1100>	C810	87-010-112-080		CAP, ELECT 100-16V	C713	87-012-286-080		CAP, U 0.01-25	C861	87-012-199-080		C-CAP,U 2200P-50 CH<1200(EZ,K)>
C912	87-016-526-080		C-CAP,S 0.47-16 BK<1100>	C811	87-010-402-080		CAP, ELECT 2.2-50V	C714	87-012-286-080		CAP, U 0.01-25	C862	87-012-266-080		C-CAP,U 220P-50 B<1100(EZ,K)>
C913	87-010-401-040		CAP,E 1-50 SME<1100>	C812	87-010-402-080		CAP, ELECT 2.2-50V	C715	87-012-195-080		C-CAP,U 100P-50CH<EZ,K>	C862	87-012-199-080		C-CAP,U 2200P-50 CH<1200(EZ,K)>
C914	87-010-494-040		CAP,E 1-50 GAS<1100>	C813	87-010-401-080		CAP, ELECT 1-50V	C717	87-012-286-080		CAP, U 0.01-25	C863	87-012-270-080		C-CAP,U 470P-50 KB<EZ,K>
C915	87-010-184-080		CHIP CAPACITOR 3300P(K)<1100>	C814	87-010-401-080		CAP, ELECT 1-50V	C719	87-012-286-080		CAP, U 0.01-25	C864	87-010-405-080		CAP, ELECT 10-50V<EZ,K>
C916	87-010-184-080		CHIP CAPACITOR 3300P(K)<1100>	C815	87-010-546-080		CAP, ELECT 0.33-50V	C720	87-012-195-080		C-CAP,U 100P-50CH	C865	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ,K>
C917	87-010-553-040		CAP,E 47-16 GAS<1100>	C816	87-010-546-080		CAP, ELECT 0.33-50V	C721	87-012-176-080		CAP 15P	C866	87-010-405-080		CAP, ELECT 10-50V<1100(EZ,K)>
C918	87-010-196-080		CHIP CAPACITOR,0.1-25<1100>	C817	87-010-221-080		CAP, ELECT 470-10V	C722	87-012-176-080		CAP 15P	C866	87-012-273-080		C-CAP,U 820P-50 B<1200(EZ,K)>
C919	87-010-264-040		CAP,E 100-10 SL<1100>	C818	87-A10-891-080		CAP,E 4.7-25 SME(K)	C723	87-012-274-080		CHIP CAP,U 1000P-50B	C867	87-012-286-080		CAP, U 0.01-25<EZ,K>
C920	87-010-318-080		C-CAP,S 47P-50 CH<1100>	C819	87-A10-800-080		C-CAP,S 6800P-16 J B CM	C725	87-012-274-080		CHIP CAP,U 1000P-50B	C868	87-012-184-080		C-CAP,U 33P-50 J CH<EZ,K>
C921	87-010-318-080		C-CAP,S 47P-50 CH<1100>	C820	87-010-374-080		CAP, ELECT 47-10V	C727	87-010-196-080		CHIP CAPACITOR,0.1-25	C869	87-012-180-080		C-CAP,U 22P-50 J CH<EZ,K>
C922	87-010-318-080		C-CAP,S 47P-50 CH<1100>	C821	87-010-196-080		CHIP CAPACITOR,0.1-25	C728	87-010-248-080		CAP, ELECT 220-10V	C940	87-012-286-080		CAP, U 0.01-25
CN101	87-099-720-010		CONN,30P TYK-B(P)	C822	87-A10-804-080		C-CAP,S 0.1-25 J B	C753	87-010-263-080		CAP, ELECT 100-10V<EZ,K>	C941	87-012-182-080		C-CAP,U 27P-50 CH<HR>
CN601	87-099-199-010		CONN,6P 6216 H<1200>	C823	87-A10-800-080		C-CAP,S 6800P-16 J B CM	C755	87-012-286-080		CAP, U 0.01-25	C942	87-012-172-080		C-CAP,U 0.01-25 K B<EZ,K>
CN901	87-099-201-010		CONN,8P 6216 H<1100>	C824	87-010-374-080		CAP, ELECT 47-10V	C756	87-012-286-080		CAP, U 0.01-25	C943	87-012-286-080		CAP, U 0.01-25<HR>
FB101	87-008-372-080		FILTER, EMI BL OIRNI	C825	87-010-196-080		CHIP CAPACITOR,0.1-25	C757	87-012-188-080		C-CAP,U 47P-50 CH	C944	87-010-575-080		C-CAP,S 560P-50 U<HR>
FB601	87-008-372-080		FILTER, EMI BL OIRNI	C829	87-010-544-080		CAP, ELECT 0.1-50V	C758	87-012-167-080		C-CAP,U 5P-50 CH	C945	87-012-286-080		CAP, U 0.01-25<HR>
FL301	87-SP1-617-010		FL,10-BT-218GNK	C830	87-010-546-080		CAP, ELECT 0.33-50V	C761	87-010-196-080		CHIP CAPACITOR,0.1-25	C947	87-012-286-080		CAP, U 0.01-25
J601	87-A60-651-010		JACK,3.5MONO	C831	87-010-971-080		C-CAP,S 4700P-50 B J	C762	87-012-286-080		CAP, U 0.01-25	C949	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ,K>
J602	87-A60-651-010		JACK,3.5MONO	C832	87-012-349-080		C-CAP,S 1000P-50 CH	C763	87-010-829-080		CAP, U 0.047-16	C950	87-A10-913-080		C-CAP, 4700P-50 J CH<HR>
L101	87-005-130-080		COIL,10UH K<1100>	C837	87-010-971-080		C-CAP,S 4700P-50 B J	C764	87-012-337-080		C-CAP,U 56P-50 CH<HR>	C952	87-012-286-080		CAP, U 0.01-25
L801	87-A50-093-010		COIL,CLOCK 5.76MHZ	C838	87-012-349-080		C-CAP,S 1000P-50 CH	C765	87-012-286-080		CAP, U 0.01-25	C953	87-012-286-080		CAP, U 0.01-25<HR>
LED201	87-A40-589-040		LED,SLR-56VCT31 RED	C839	87-010-401-080		CAP, ELECT 1-50V	C766	87-012-286-080		CAP, U 0.01-25	C954	87-010-400-080		CAP, ELECT 0.47-50V<HR>
LED301	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C840	87-010-401-080		CAP, ELECT 1-50V	C768	87-012-286-080		CAP, U 0.01-25	C956	87-010-263-080		CAP, ELECT 100-10V<HR>
LED302	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C841	87-A10-799-080		C-CAP,S 5600P-16 J B CM	C769	87-010-260-080		CAP, ELECT 47-25V	C958	87-012-286-080		CAP, U 0.01-25<EZ,K>
LED303	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C842	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C770	87-010-829-080		CAP, U 0.047-16	C959	87-010-196-080		CHIP CAPACITOR,0.1-25
LED304	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C843	87-A10-229-080		C-CAP,S 0.68-10 K W5	C771	87-010-407-080		CAP, ELECT 33-50V	C960	87-010-196-080		CHIP CAPACITOR,0.1-25
LED305	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C844	87-012-393-080		C-CAP,S 0.22-16 R K	C772	87-010-829-080		CAP, U 0.047-16	C962	87-010-401-080		CAP, ELECT 1-50V
LED306	87-A40-589-040		LED,SLR-56VCT31 RED<1100>	C845	87-012-393-080		C-CAP,S 0.22-16 R K	C773	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	C964	87-012-170-080		C-CAP,U 8P-50 CH<HR>
LED306	87-A40-606-040		LED,SLR-332VC<1200>	C846	87-010-404-080		CAP, ELECT 4.7-50V	C774	87-010-263-080		CAP, ELECT 100-10V	CF801	87-008-423-010		CERAMIC FILTER, SFE10.7<EZ,K>
LED307	87-A40-589-040		LED,SLR-56VCT31 RED<1100>	C847	87-010-404-080		CAP, ELECT 4.7-50V	C775	87-010-404-080		CAP, ELECT 4.7-50V	CF801	87-008-261-010		FILTER, SFE10.7MA5-A<HR>
LED307	87-A40-606-040		LED,SLR-332VC<1200>	C848	87-012-393-080		C-CAP,S 0.22-16 R K	C776	87-012-286-080		CAP, U 0.01-25<EZ,K>	CF802	82-785-747-010		CF MS2 GHY R<EZ,K>
LED308	87-A40-589-040		LED,SLR-56VCT31 RED<1100>	C849	87-012-393-080		C-CAP,S 0.22-16 R K	C777	87-010-400-080		CAP, ELECT 0.47-50V	CF802	87-008-261-010		FILTER, SFE10.7MA5-A<HR>
LED308	87-A40-606-040		LED,SLR-332VC<1200>	C850	87-016-081-080		C-CAP,S 0.1-16 RK	C778	87-010-401-080		CAP, ELECT 1-50V	CN601	87-099-028-010		CONN,11P 6216 H
LED309	87-A40-589-040		LED,SLR-56VCT31 RED<1100>	C851	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C779	87-010-401-080		CAP, ELECT 1-50V	CN602	87-099-211-010		CONN,4P V BLK 6216<EZ,K>
LED309	87-A40-606-040		LED,SLR-332VC<1200>	C852	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C780	87-010-196-080		CHIP CAPACITOR,0.1-25	FFE801	A8-62A-191-130		62A-1 FEENM<EZ,K>
LED310	87-A40-589-040		LED,SLR-56VCT31 RED<1100>	C853	87-016-081-080		C-CAP,S 0.1-16 RK	C781	87-010-405-080		CAP, ELECT 10-50V	FFE801	A8-82A-190-030		82A-1 FEUNM<HR>
LED310	87-A40-606-040		LED,SLR-332VC<1200>	C854	87-016-081-080		C-CAP,S 0.1-16 RK	C782	87-010-405-080		CAP, ELECT 10-50V	J801	87-A60-657-010		TERMINAL,4P HSP-154V5-02<HR>
S301	87-A90-095-080		SW,TACT EVQ11G04M	C855	87-A10-801-080		C-CAP,S 0.022-16 J B CM	C783	87-012-286-080		CAP, U 0.01-25	J802	87-033-241-010		TERMINAL,ANT 2P<EZ,K>
S302	87-A90-095-080		SW,TACT EVQ11G04M	C856	87-A10-801-080		C-CAP,S 0.022-16 J B CM	C784	87-012-286-080		CAP, U 0.01-25	J940	81-754-629-010		CONNECTOR, 2P<HR>
S303	87-A90-095-080		SW,TACT EVQ11G04M	C857	87-016-081-080		C-CAP,S 0.1-16 RK	C785	87-010-805-080		CAP, S 1-16	L612	87-005-372-080		COIL S 1MHM<1200(EZ,K)>
S304	87-A90-095-080		SW,TACT EVQ11G04M	C861	87-010-196-080		CHIP CAPACITOR,0.1-25	C786	87-010-805-080		CAP, S 1-16	L613	87-005-372-080		COIL S 1MHM<1200(EZ,K)>
S305	87-A90-095-080		SW,TACT EVQ11G04M	C863	87-010-263-080		CAP, ELECT 100-10V	C787	87-012-282-080		C-CAP,U 4700P-50 KB<EZ,K>	L771	87-A50-266-010		COIL,FM DFT-2N(TOK)
S306	87-A90-095-080		SW,TACT EVQ11G04M	C865	87-016-460-080		C-CAP,S 0.22-16 B	C787	87-012-280-080		CAP, U 3300P-50<HR>	L772	87-A90-052-010		FLTR,CFMT-450A(TOK)<HR>
S307	87-A90-095-080		SW,TACT EVQ11G04M	C866	87-010-194-080		CAP, CHIP 0.047	C788	87-012-282-080		C-CAP,U 4700P-50 KB<EZ,K>	L772	87-A90-733-010		FLTR,PCFAZH-450<EZ,K>
S308	87-A90-095-080		SW,TACT EVQ11G04M	C867	87-A10-201-080		C-CAP,S0.33-16 KB	C788	87-012-280-080		CAP, U 3300P-50<HR>	L781	87-005-847-080		COIL,2.2UH(CECS)
S309	87-A90-095-080		SW,TACT EVQ11G04M	C868	87-A10-060-080		C-CAP,S 0.18-16 K B	C789	87-012-275-080		C-CAP,U 1200P-50 B	L791	87-A50-027-010		COIL,1 POLE MPX(TOK)
S310	87-A90-095-080		SW,TACT EVQ11G04M	C878	87-010-401-080		CAP, ELECT 1-50V	C790	87-012-275-080		C-CAP,U 1200P-50 B	L792	87-A50-027-010		COIL,1 POLE MPX(TOK)
S311	87-A90-095-080		SW,TACT EVQ11G04M	C879	87-010-179-080		CAP,CHIP S B1200P	C791	87-010-405-080		CAP, ELECT 10-50V	L832	87-005-847-080		COIL,2.2UH(CECS)
S312	87-A90-095-080		SW,TACT EVQ11G04M	C880	87-010-179-080		CAP,CHIP S B1200P	C793	87-012-275-080		C-CAP,U 1200P-50 B<EZ,K>	L941	87-A50-020-010		COIL,ANT LW(COI)252KHZ<EZ,K>
S313	87-A90-095-080		SW,TACT EVQ11G04M	C890	87-012-358-080		C-CAP,S 0.47-10 F Z	C793	87-012-273-080		C-CAP,U 820P-50 B<HR>	L941	87-A50-022-010		COIL,ANT SW(COI)<HR>
S314	87-A90-095-080		SW,TACT EVQ11G04M	C891	87-010-401-080		CAP, ELECT 1-50V	C794	87-010-406-080		CAP, ELECT 22-50	L942	87-A50-019-010		COIL,OSC LW (COI)<EZ,K>
S315	87-A90-095-080		SW,TACT EVQ11G04M	C892	87-010-401-080		CAP, ELECT 1-50V	C795	87-A10-504-080		C-CAP,U 0.047-16 K B	L942	87-A50-173-010		COIL,OSC SW-N(COI)<HR>
S316	87-A90-095-080		SW,TACT EVQ11G04M<EZ,K>	C893	87-010-401-080		CAP, ELECT 1-50V	C796	87-010-403-080		CAP, ELECT 3.3-50V	L943	87-005-372-080		COIL S 1MHM<HR>
S317	87-A90-095-080		SW,TACT EVQ11G04M<EZ,K>	C894	87-010-263-080		CAP, ELECT 100-10V	C797	87-012-276-080		CAP, CHIP SS 1500 PBK	L944	87-A50-159-010		COIL,10MH K C2B<HR>
S318	87-A90-095-080		SW,TACT EVQ11G04M<EZ,K>	C895	87-010-195-080		C-CAP,S 0.068-25 F	C798	87-012-276-080		CAP, CHIP SS 1500 PBK	L981	88-NF4-651-110		COIL,AM PACK2N(TOM)<EZ,K>
SW201	87-A91-342-010		SW,RTY EC16B24104W/O D L20	C896	87-010-260-080		CAP, ELECT 47-25V	C799	87-010-829-080		CAP, U 0.047-16	L981	88-NF8-625-110		COIL,AM PACK3N(TOK)<HR>
X201	87-A70-075-080		VIB,CER 4.19MHZ CRHF	CN401	87-099-559-010		CONN,13P TUC-P13X-B1<1200>	C812	87-012-286-080		CAP, U 0.01-25	TC941	87-011-173-010		CERAMIC TRIMMER 20P<HR>
PRO C.B <1200>				CN402	87-099-557-010		CONN,11P TUC-P11X-B1<1200>	C813</							

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CONN 10P C.B				△ PT102	8Z-NF8-663-010		PT,SUB ZNF-8(H)<HR>
CN904	87-A60-575-010		CONN,10P H 52303	△ RY101	87-A91-281-010		RELAY,AC DC12V OSA-SS-212<HR>
CN905	87-099-198-010		CONN,10P 6216 V	△ RY102	87-A90-976-010		RELAY,AC12V SDT-S-112<EZ,K>
				△ T101	87-A60-317-010		TERMINAL, 1P MSC
				△ T102	87-A60-317-010		TERMINAL, 1P MSC
AC1 C.B				AC2 C.B			
△ PT101	88-SPM-604-010		PT,EZ<1200EZ>	CN101	84-NF1-650-010		CONN ASSY,3P(S-M)<1200>
△ PT101	88-SPM-602-010		PT,HE<1200HR>	△ PR101	87-A90-195-080		PROTECTOR 7A 125V 49
△ PT101	88-SPM-606-010		PT,K<1200K>	△ PR102	87-A90-195-080		PROTECTOR 7A 125V 49
△ PT101	88-SP1-604-010		PT,EZ<1100EZ>	△ PR103	87-026-682-080		PROTECTOR,10A 60V491
△ PT101	88-SP1-602-010		PT,HE<1100HR>	△ PR104	87-026-682-080		PROTECTOR,10A 60V491
△ PT101	88-SP1-606-010		PT,K<1100K>	△ PR105	87-026-681-080		PROTECTOR,5A 60V 491<1200>
SUB TRANS C.B				△ PR106	87-026-681-080		PROTECTOR,5A 60V 491<1200>
△ C138	87-010-387-080		CAP,E 470-25 SME	WH101	87-A90-460-010		HLDR,WIRE 2.5-7P
△ C140	87-A10-480-090		CAP,CER 4700P-250 M E KH<1200>	AC1 SW C.B<HR ONLY>			
△ C141	87-A10-480-090		CAP,CER 4700P-250 M E KH	△ S101	87-036-173-010		SW,SL 2-2-4 SDKG
CN102	8Z-SP1-619-010		CONN ASSY, 4P				
△ PT102	8Z-NF8-662-010		PT,SUB ZNF-8(E)<EZ,K>				

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち


Chip Resistor Part Coding

8 8 - □ □ □ □ □ □ □

A
抵抗部品コード
Resistor Code

桁表示
Figure
抵抗値
Value of resistor

チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A
				外形／Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128



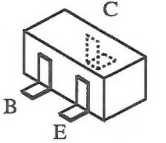
KTA1266GR
KTC3198GR



CC5551
CSD1489B



2SB1370
2SB1625
2SD2494



2SA1235
2SA1514
2SC2714
2SC3052
2SC3326
2SD1306E
CMBT5551

CSD1306E
DTA143EK
RN1410
RT1N141C
RT1N144C
RT1P141C
RT1P144C



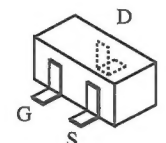
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2SK3053



2SC4115S



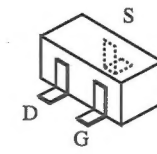
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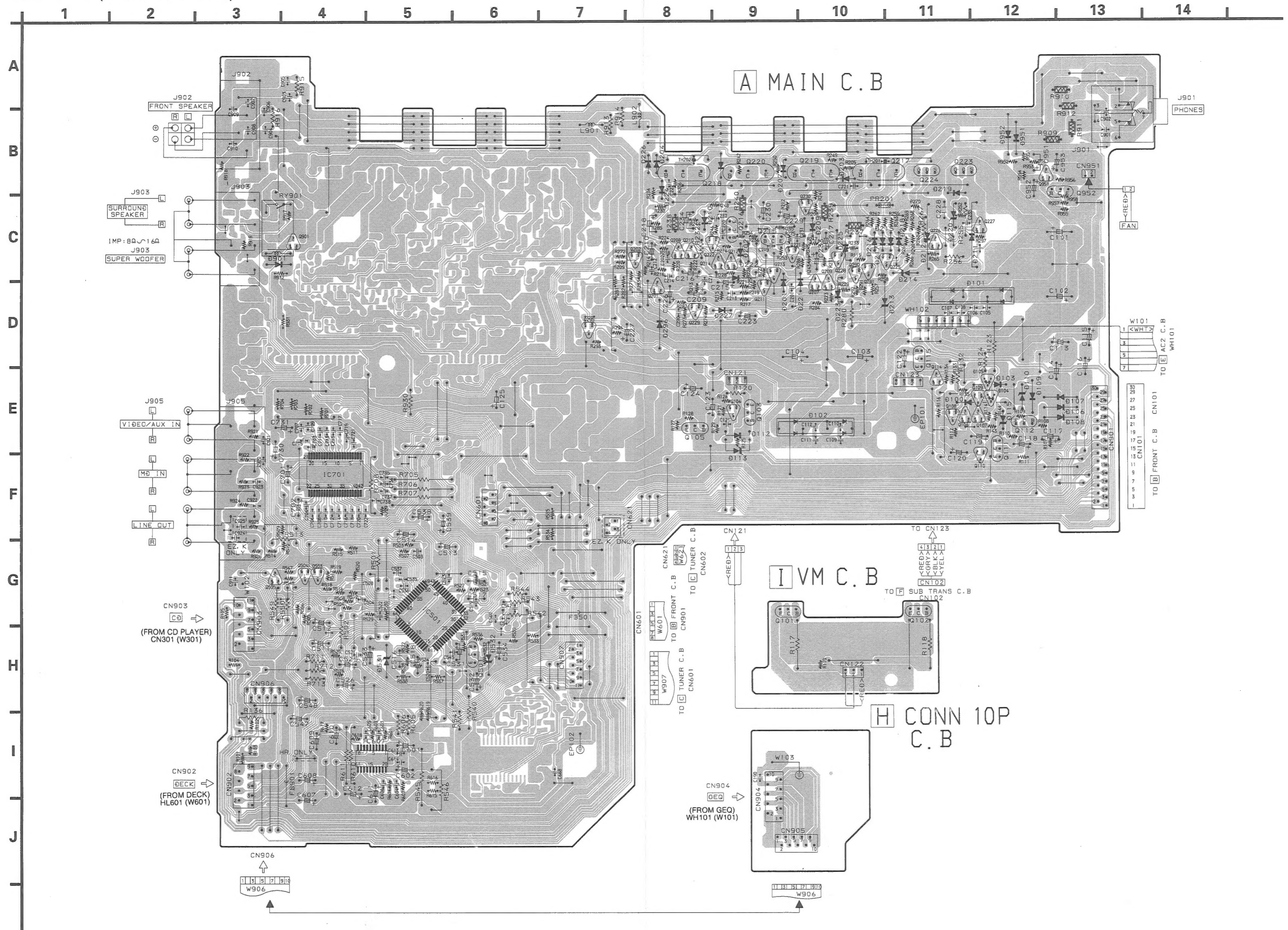
2SB1626
2SD2495



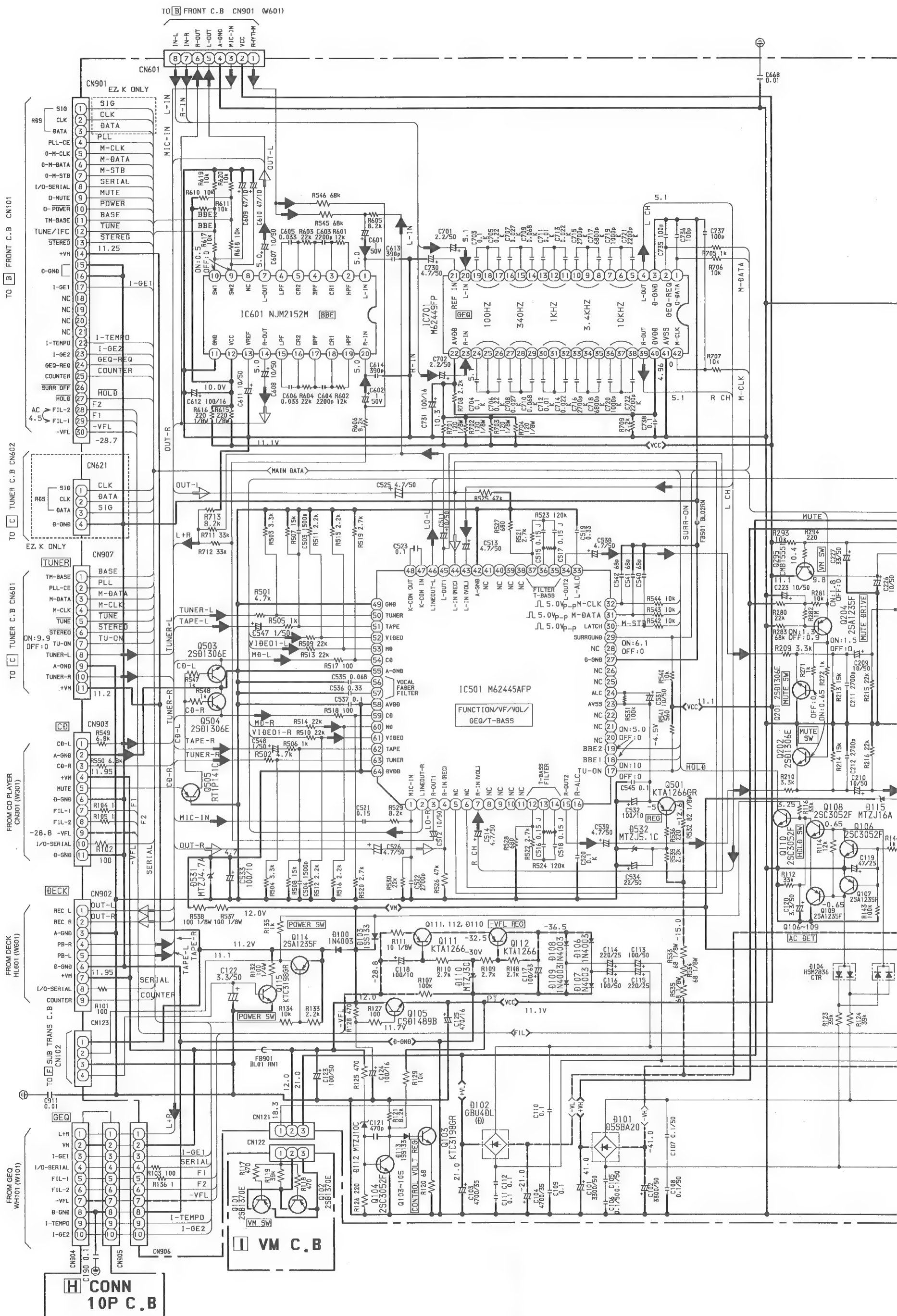
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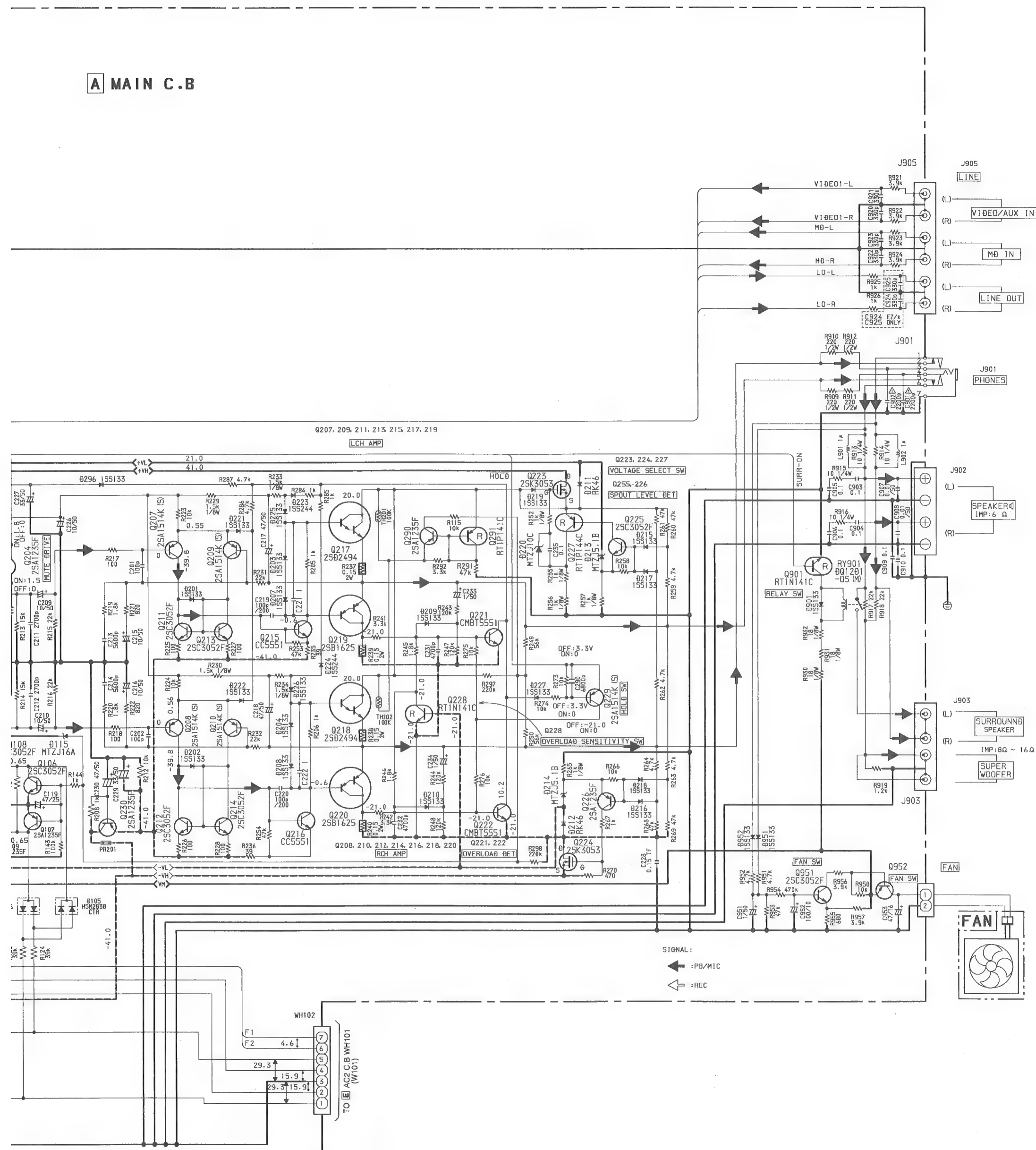
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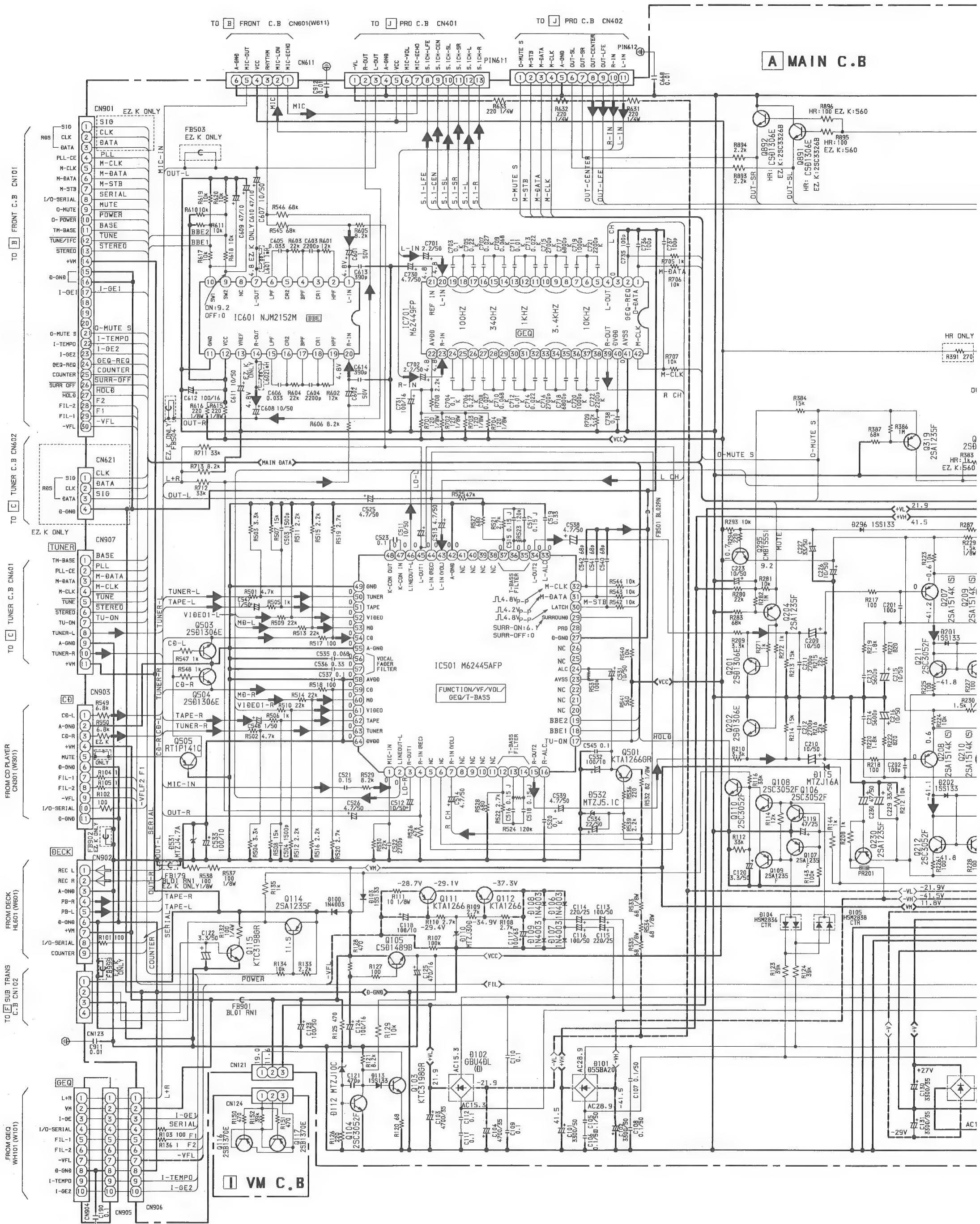
SCHEMATIC DIAGRAM - 1 (MAIN : MX-NH1100)

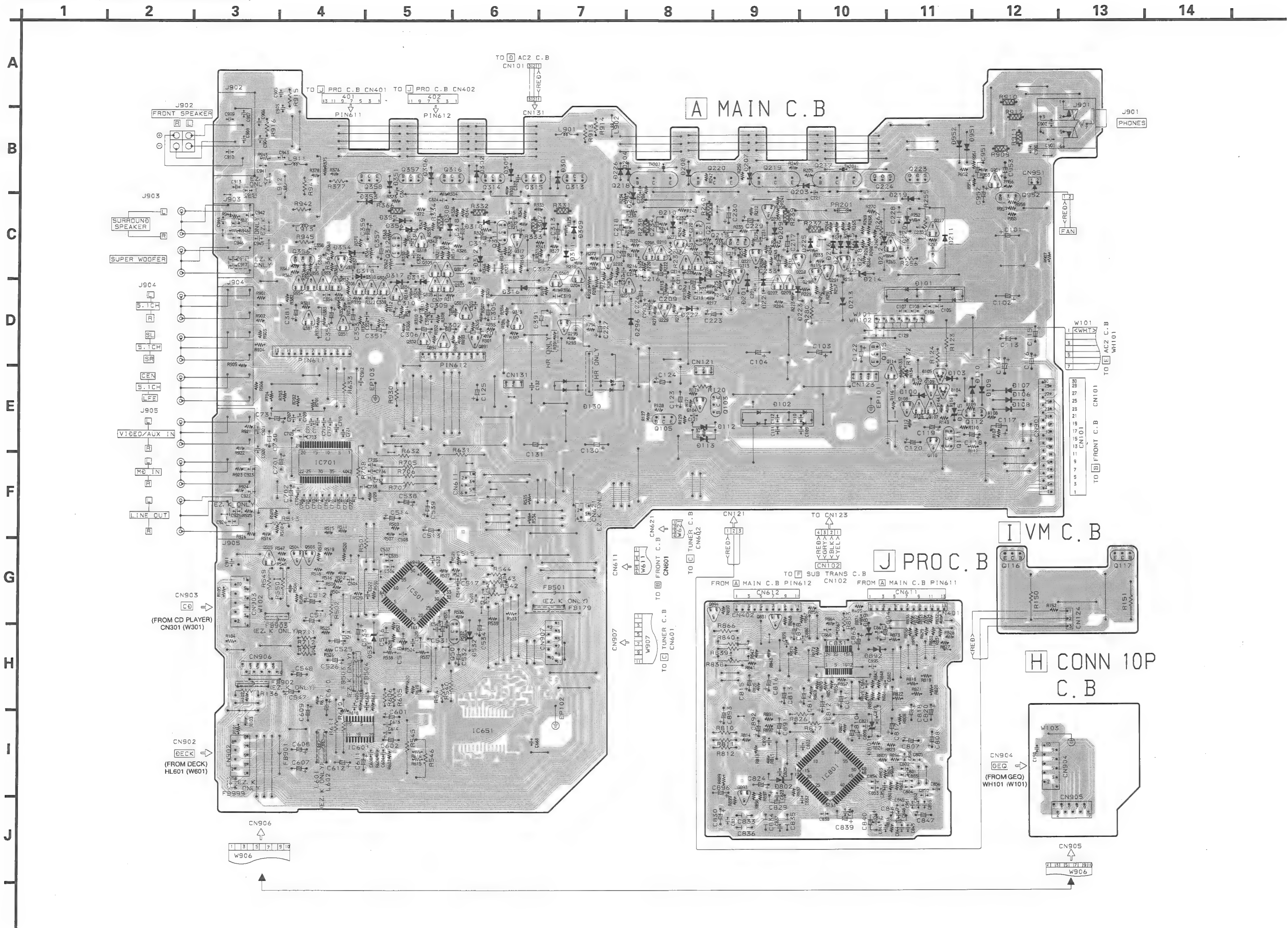


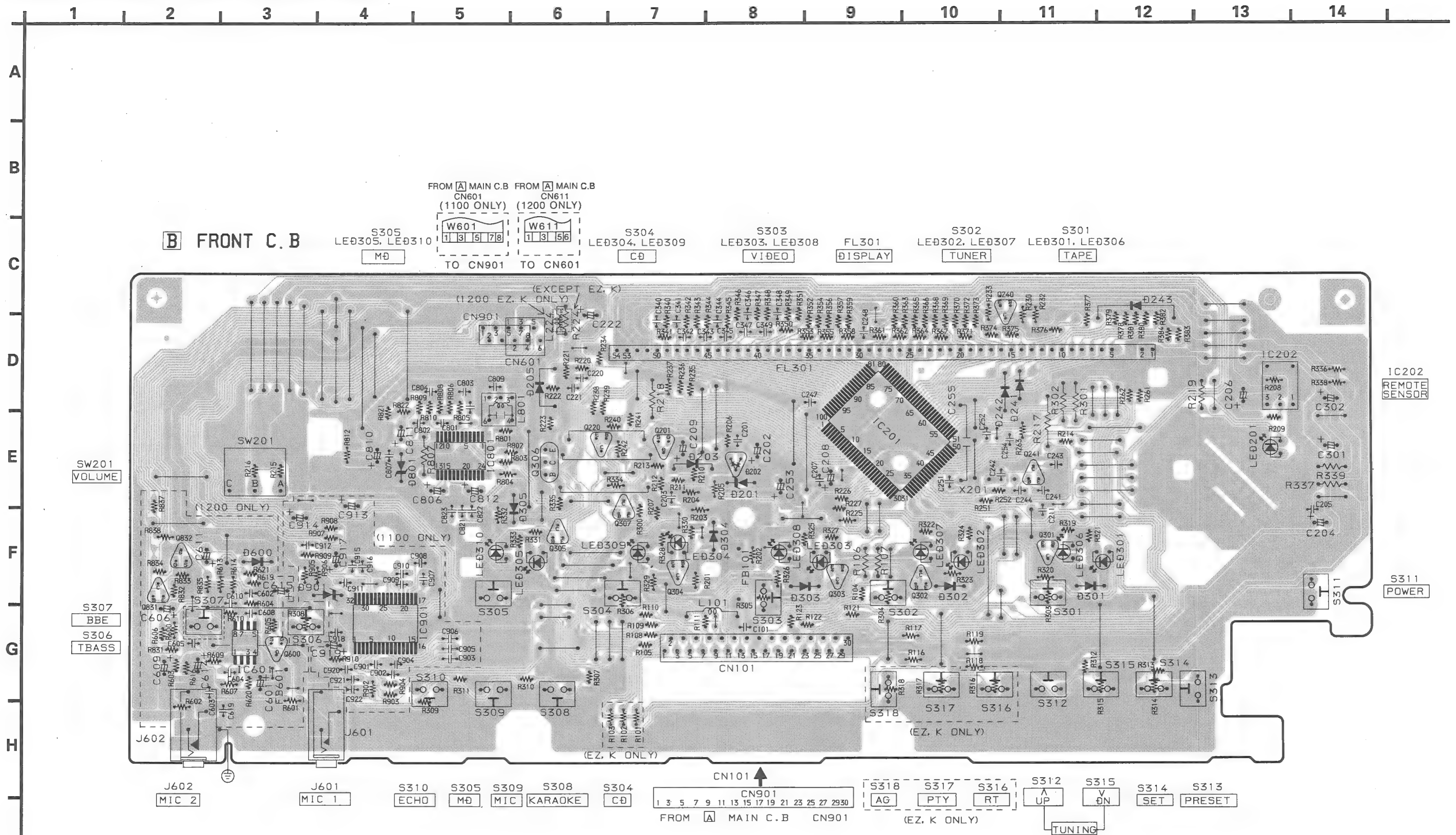
A MAIN C.B



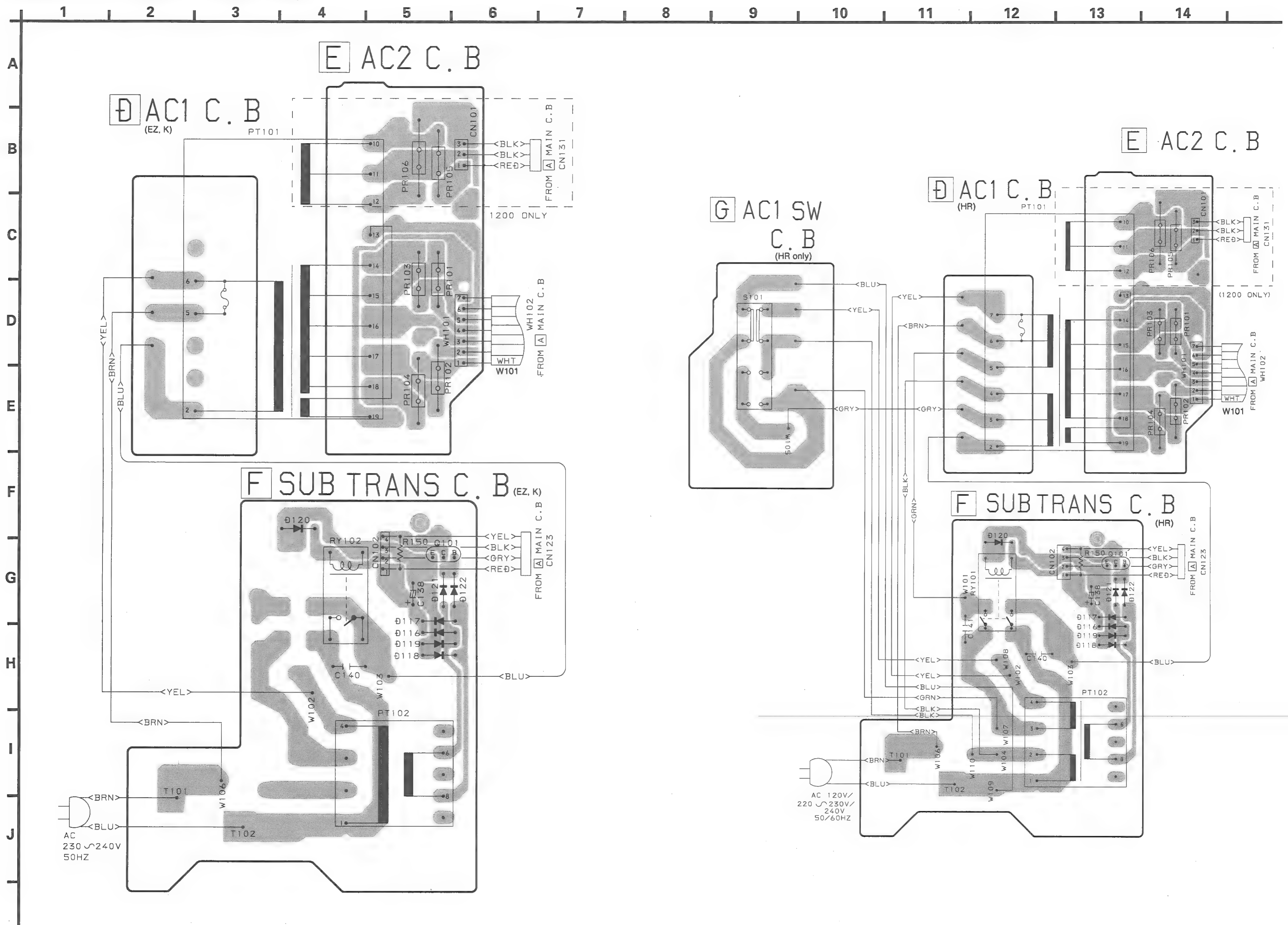
SCHEMATIC DIAGRAM – 2 (MAIN : MX-NAVH1200)

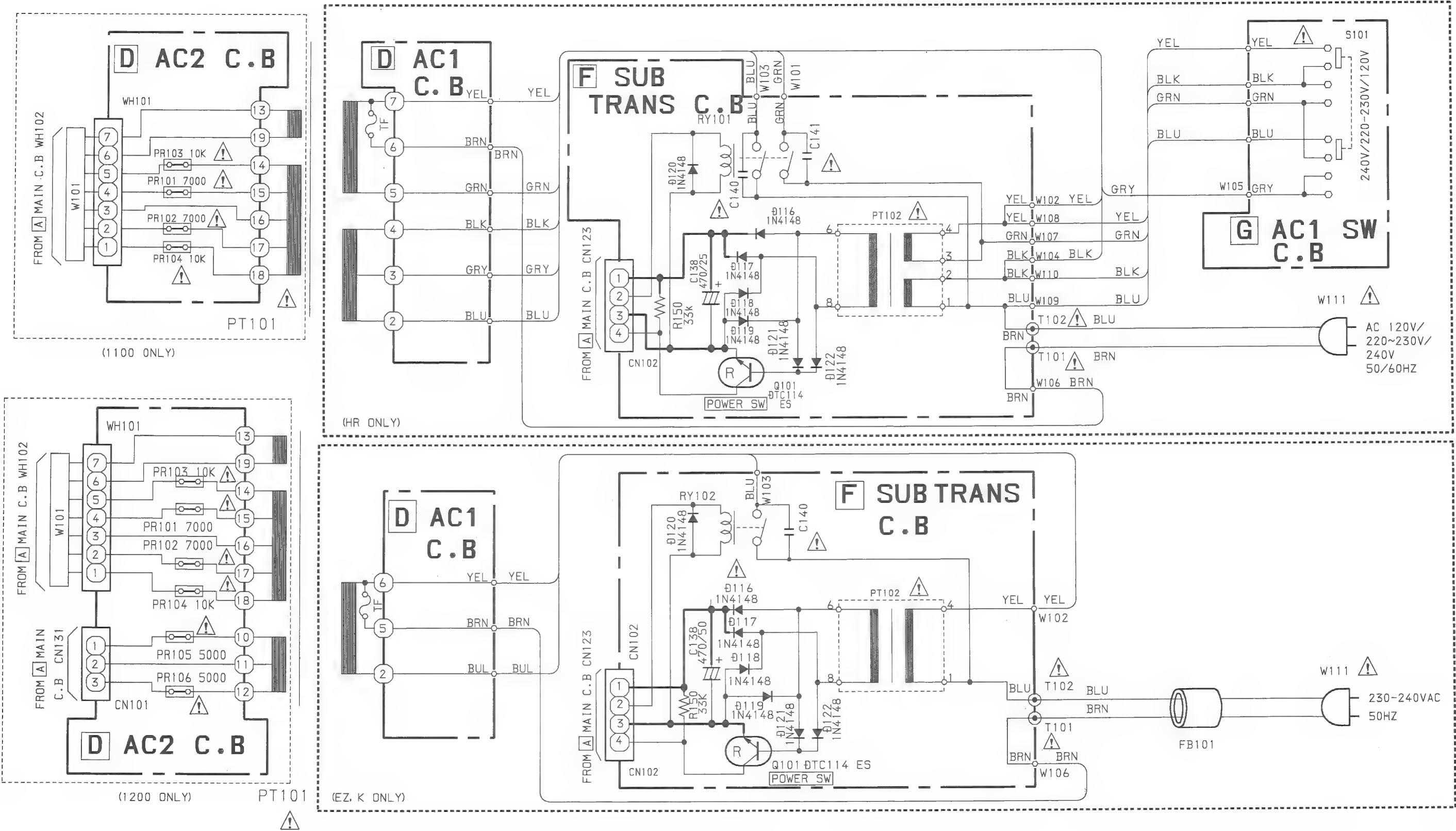


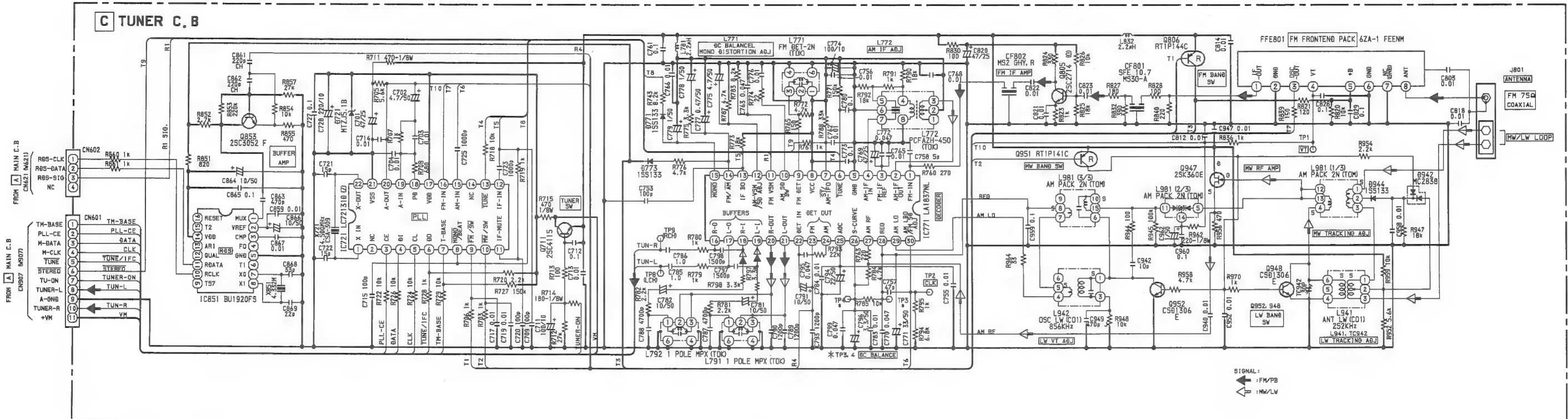


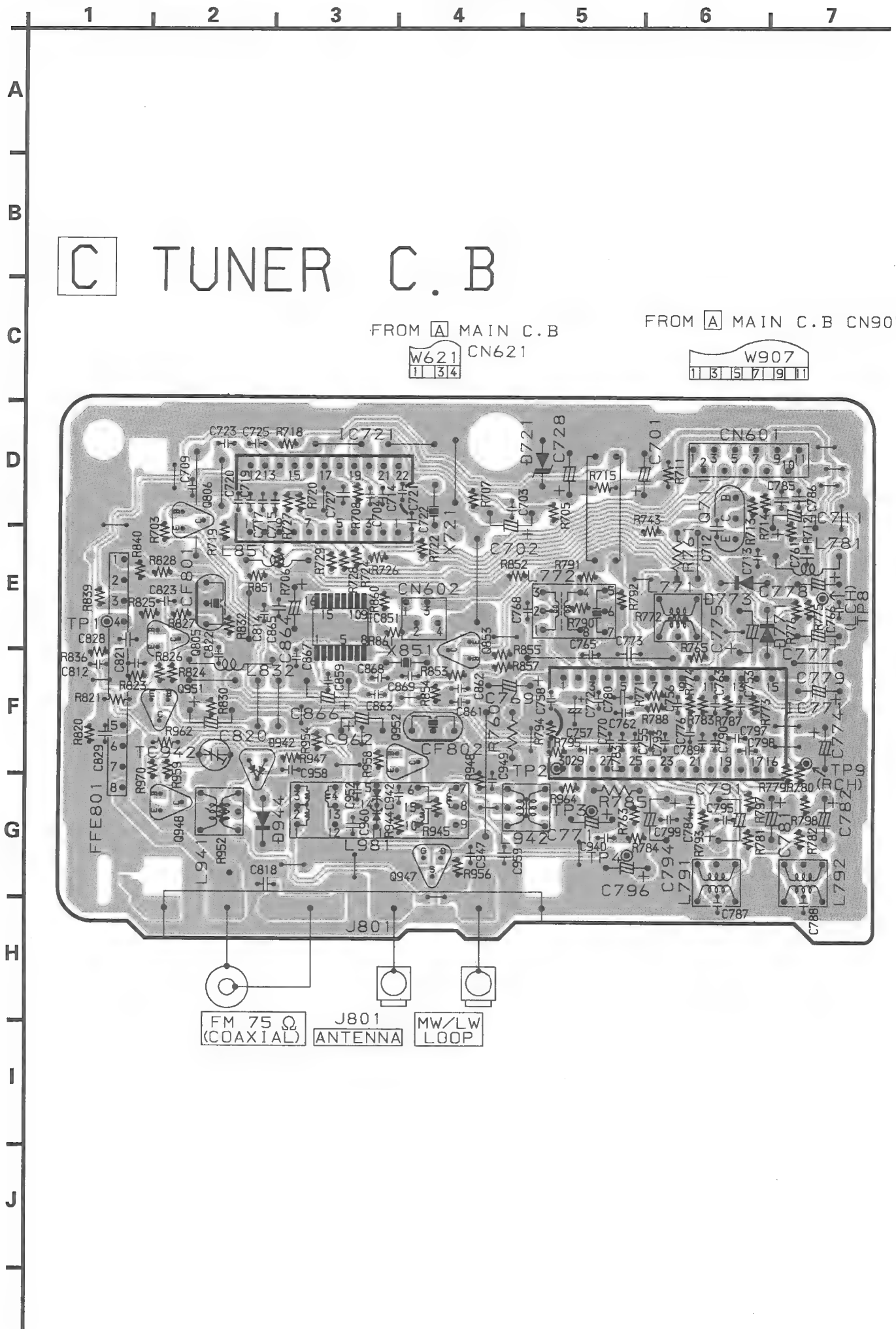












1 2 3 4 5 6 7

A

B

C

C TUNER C.B

FROM A MAIN C.B
CN907

W907					
1	3	5	7	9	11

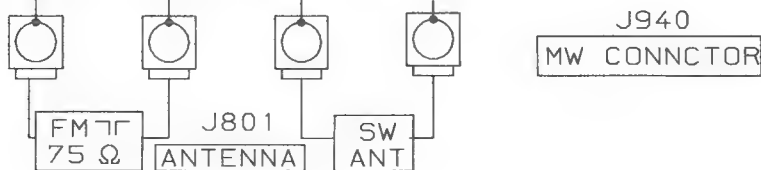
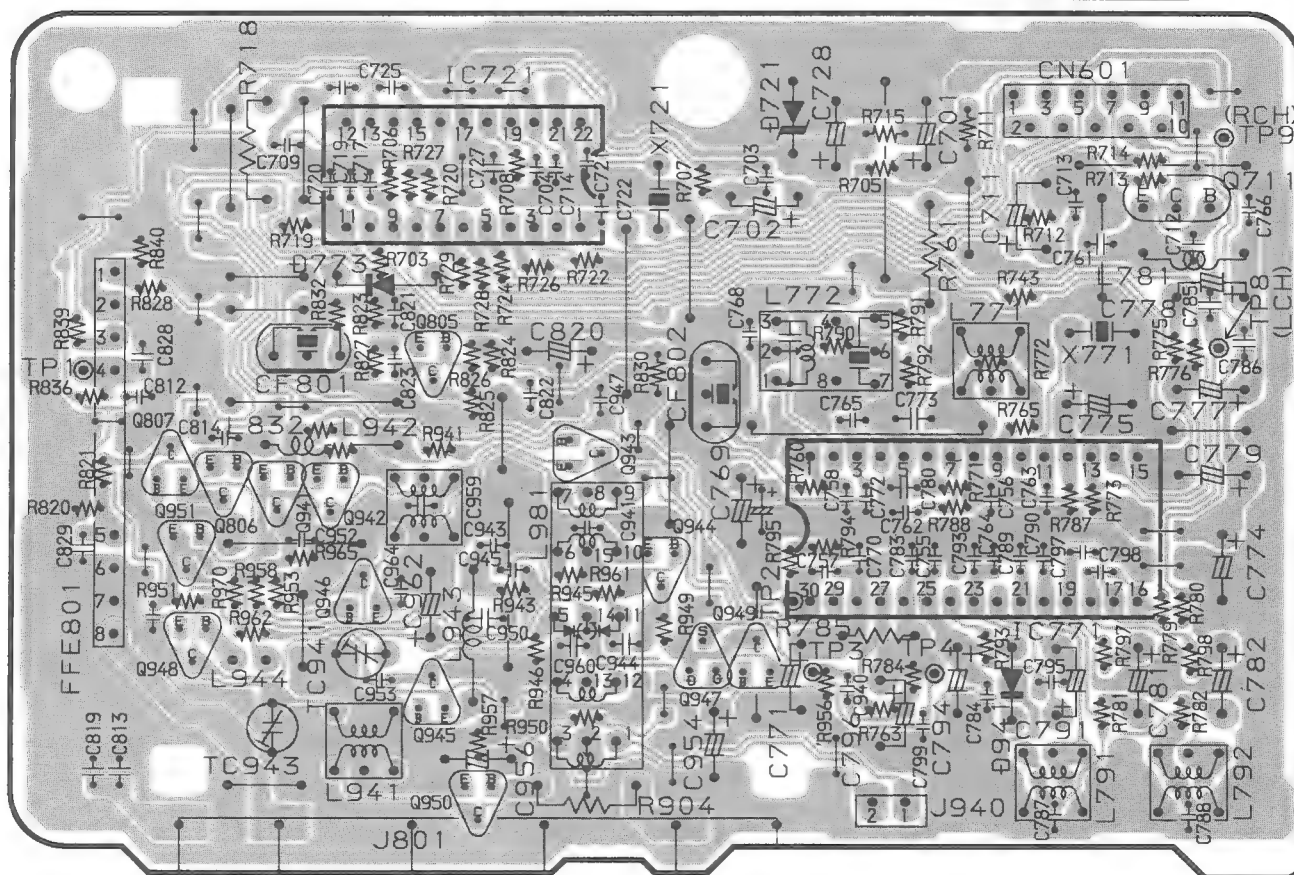
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E

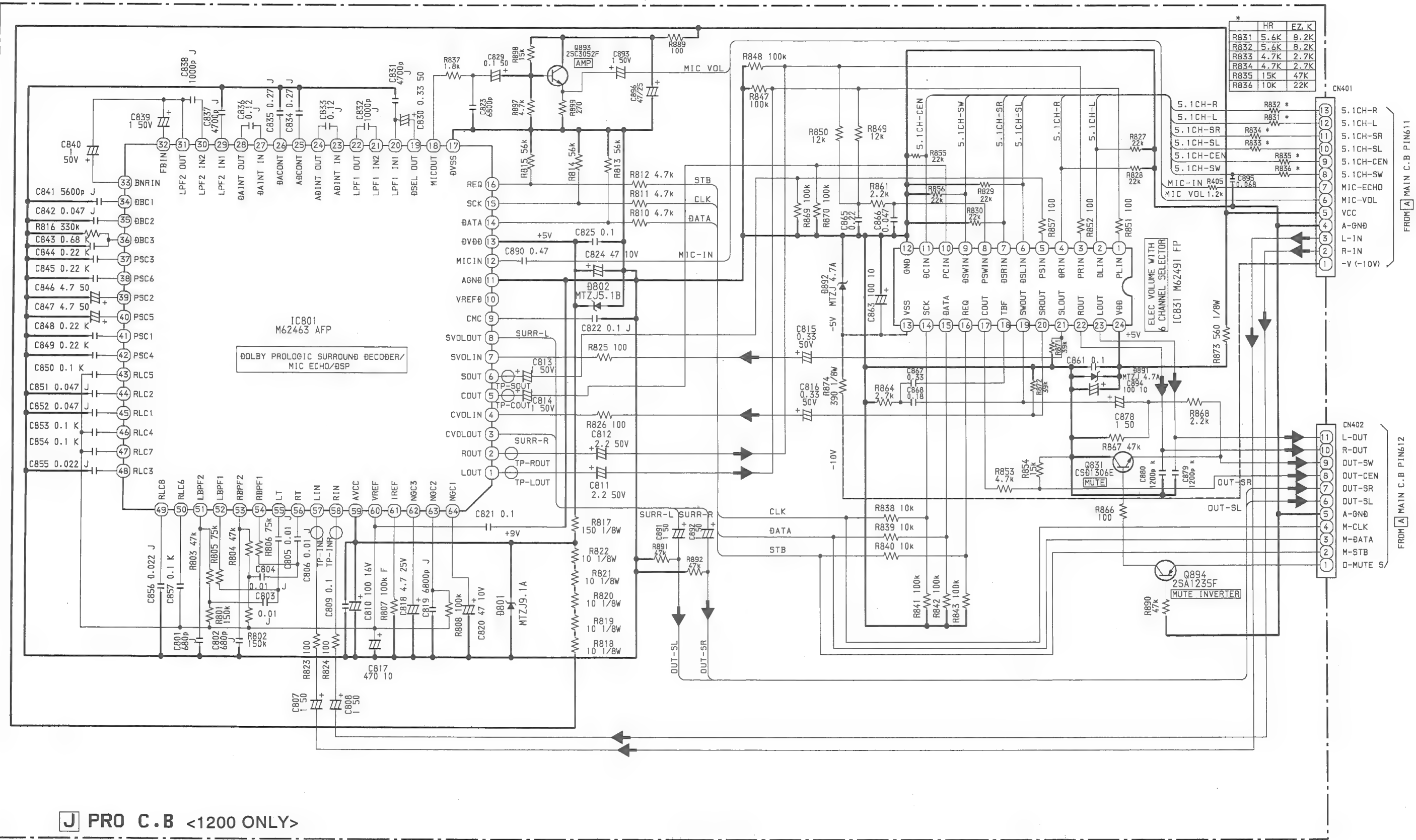
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G

H

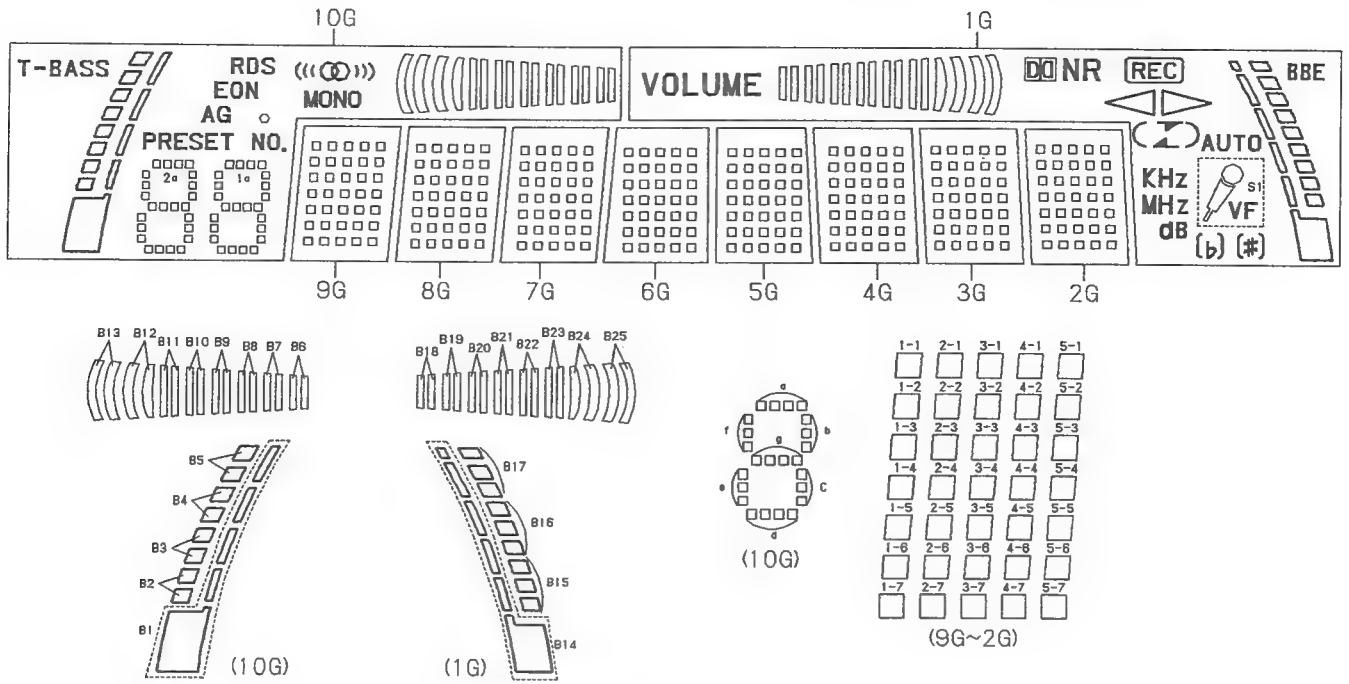






FL (10-BT-218GNK) GRID ASSIGNMENT & ANODE CONNECTION (MX-NH1100 / NAVH1200)

GRID ASSIGNMENT

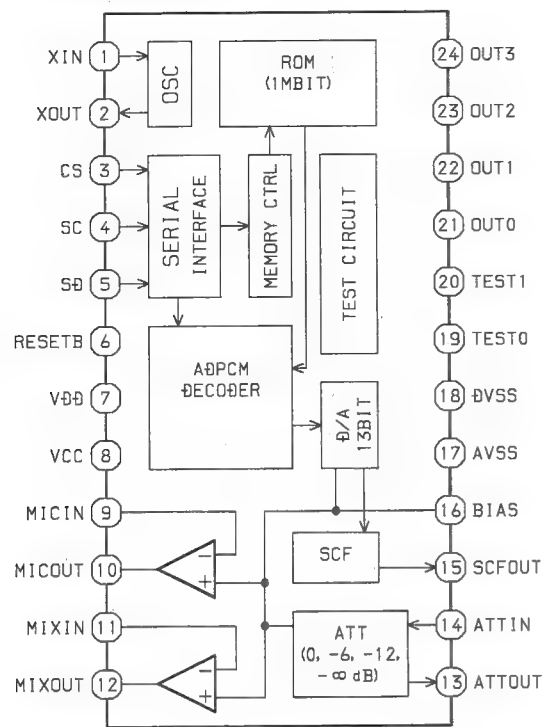


ANODE CONNECTION

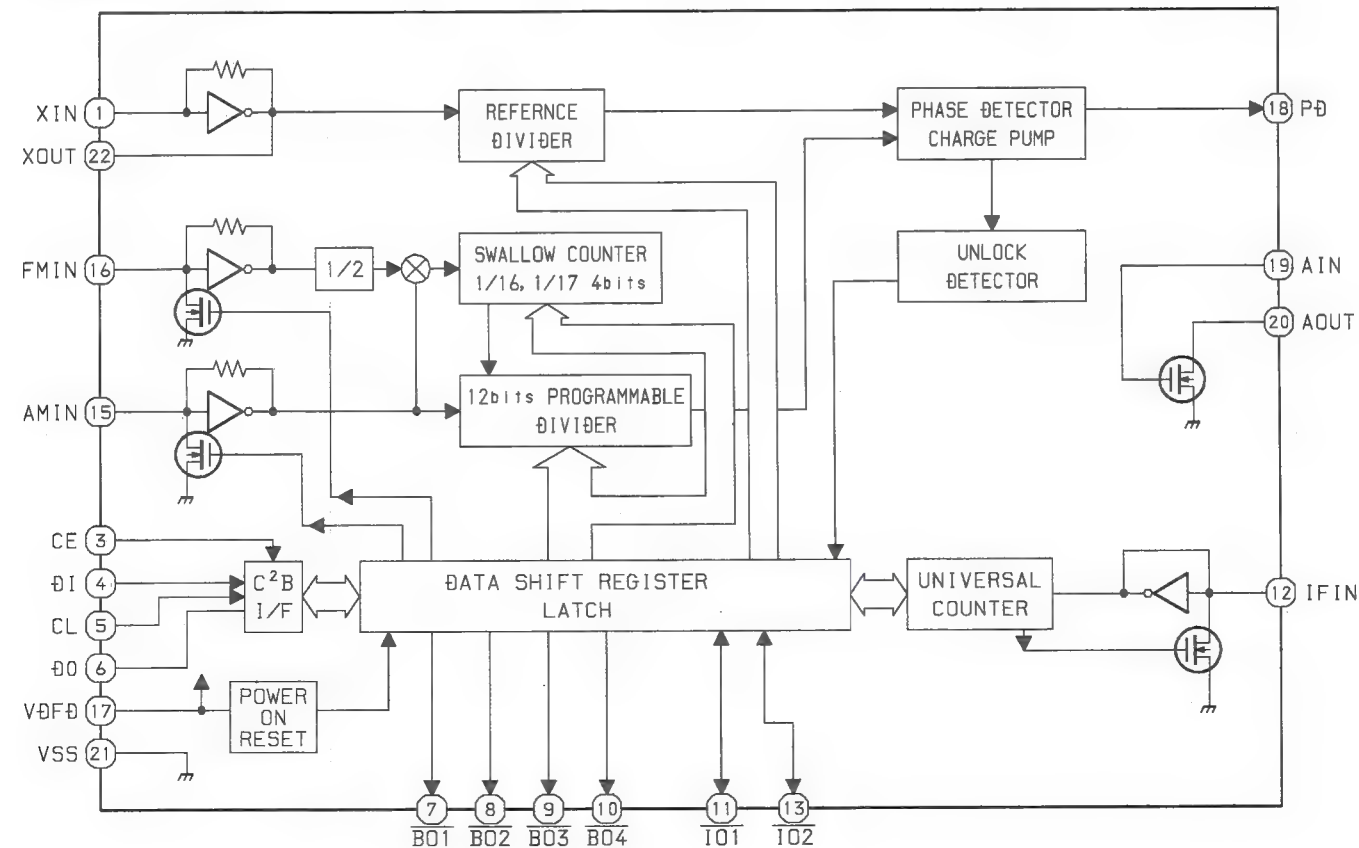
	10G	9G~2G	1G
P1	(((O)))	1-1	VOLUME
P2	B6	2-1	B18
P3	B7	3-1	B19
P4	B8	4-1	B20
P5	B9	5-1	B21
P6	B10	1-2	B22
P7	B11	2-2	B23
P8	B12	3-2	B24
P9	B13	4-2	B25
P10	MONO	5-2	NR
P11	RDS	1-3	REC
P12	EON	2-3	Δ
P13	AG	3-3	▽
P14	○	4-3	C
P15	PRESET No.	5-3	↗
P16	2a	1-4)
P17	2f	2-4	KHz
P18	2b	3-4	MHz
P19	2g	4-4	dB
P20	2e	5-4	(b)
P21	2c	1-5	b
P22	2d	2-5	S1
P23	1a	3-5	AUTO
P24	1f	4-5	#
P25	1b	5-5	(#)
P26	1g	1-6	B14
P27	1e	2-6	B17
P28	1c	3-6	B16
P29	1d	4-6	B15
P30	T-BASS	5-6	BBE
P31	B1	1-7	-
P32	B2	2-7	-
P33	B3	3-7	-
P34	B4	4-7	-
P35	B5	5-7	-

IC BLOCK DIAGRAM (MX-NH1100 / NAVH1200)

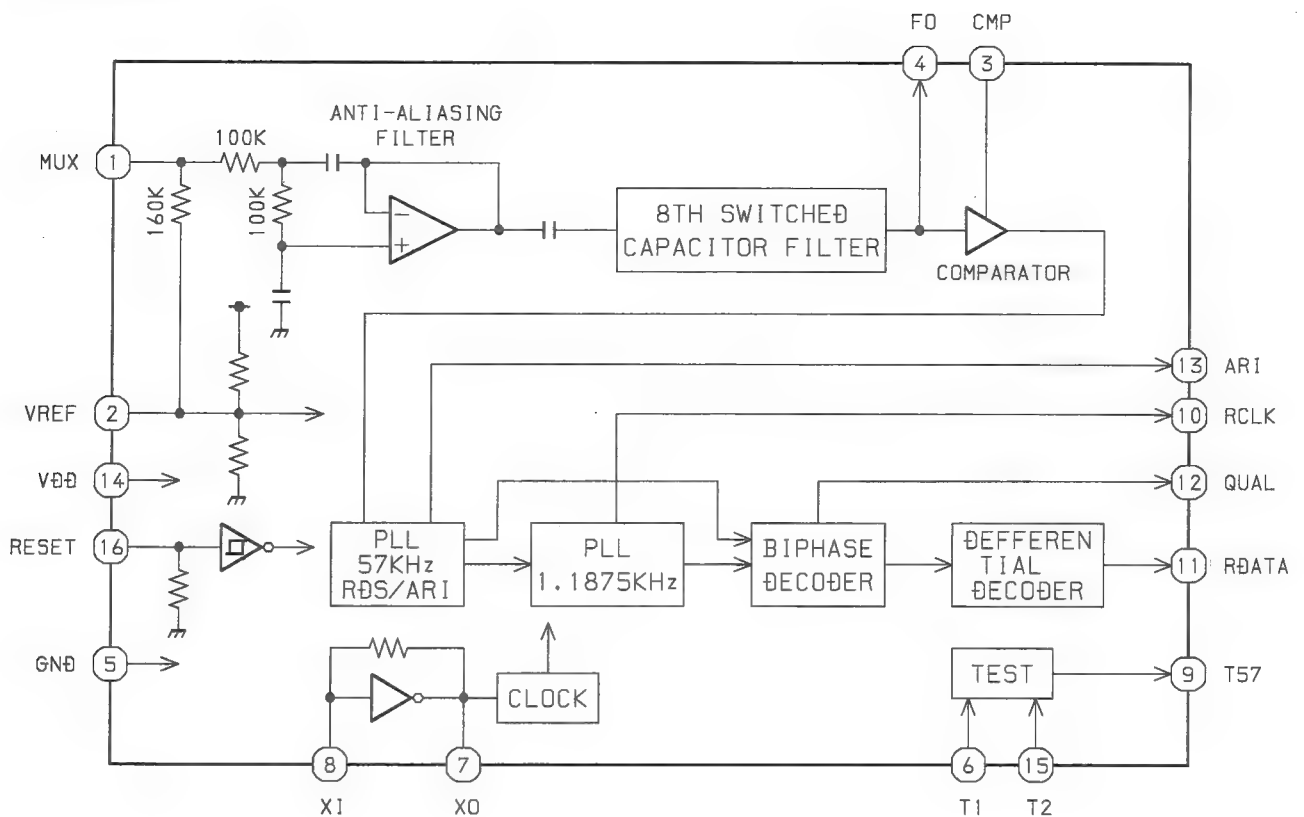
IC, BU9990-03FS



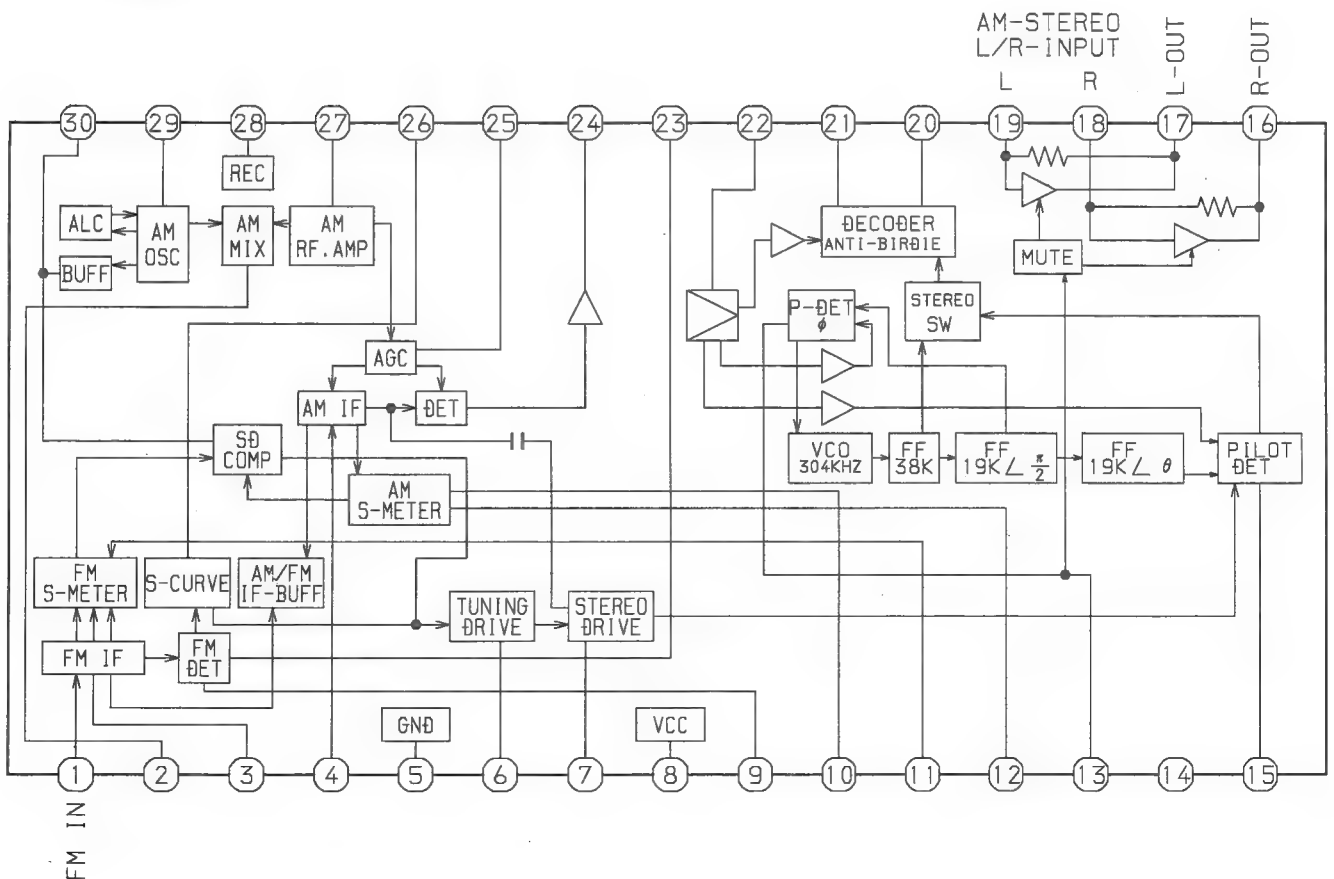
IC, LC72131D



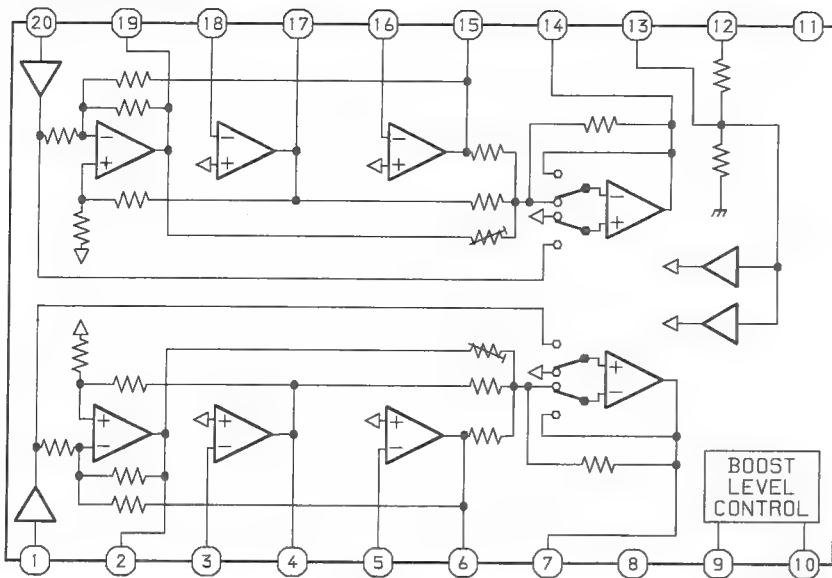
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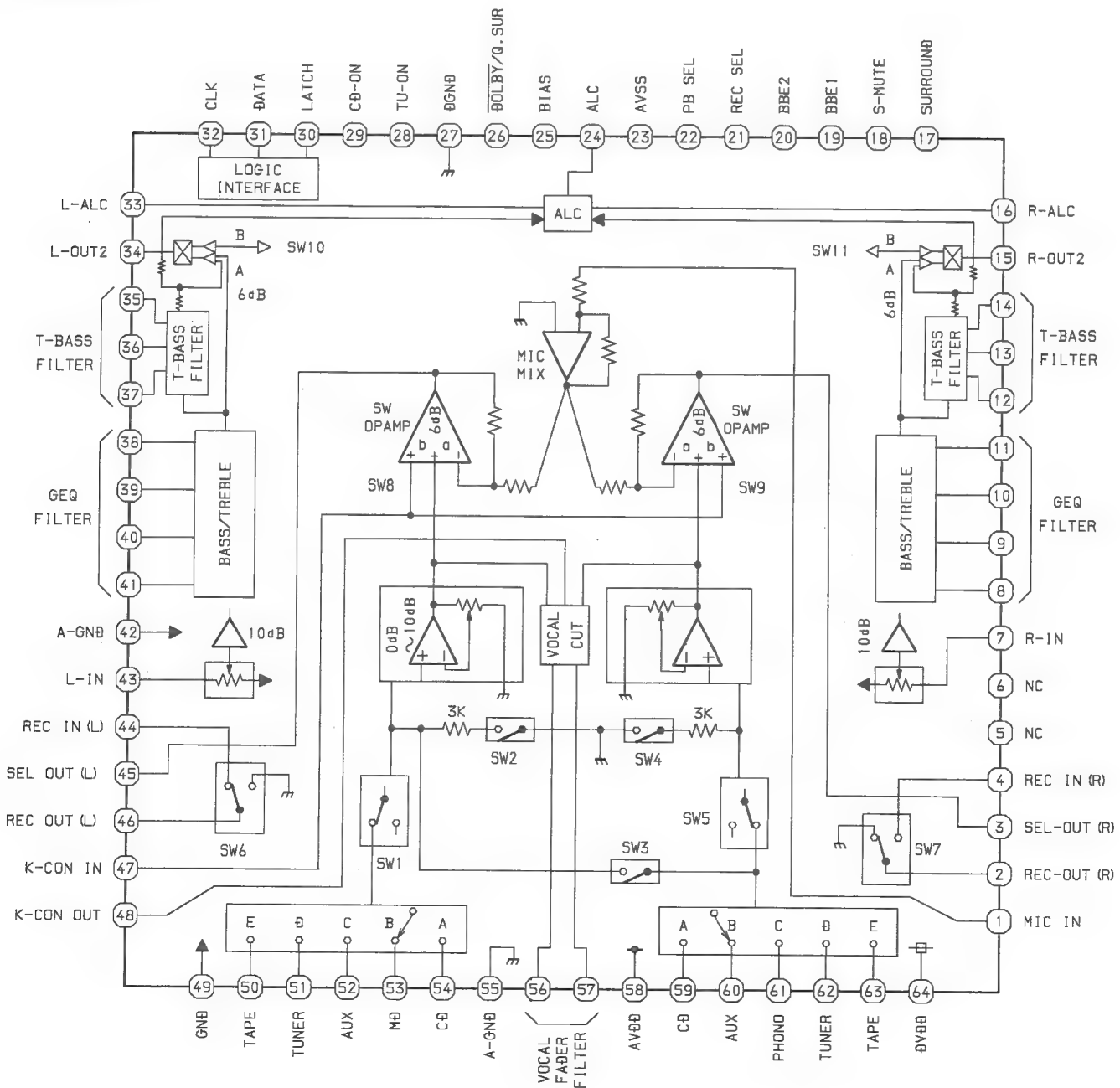
IC, LA1837NL

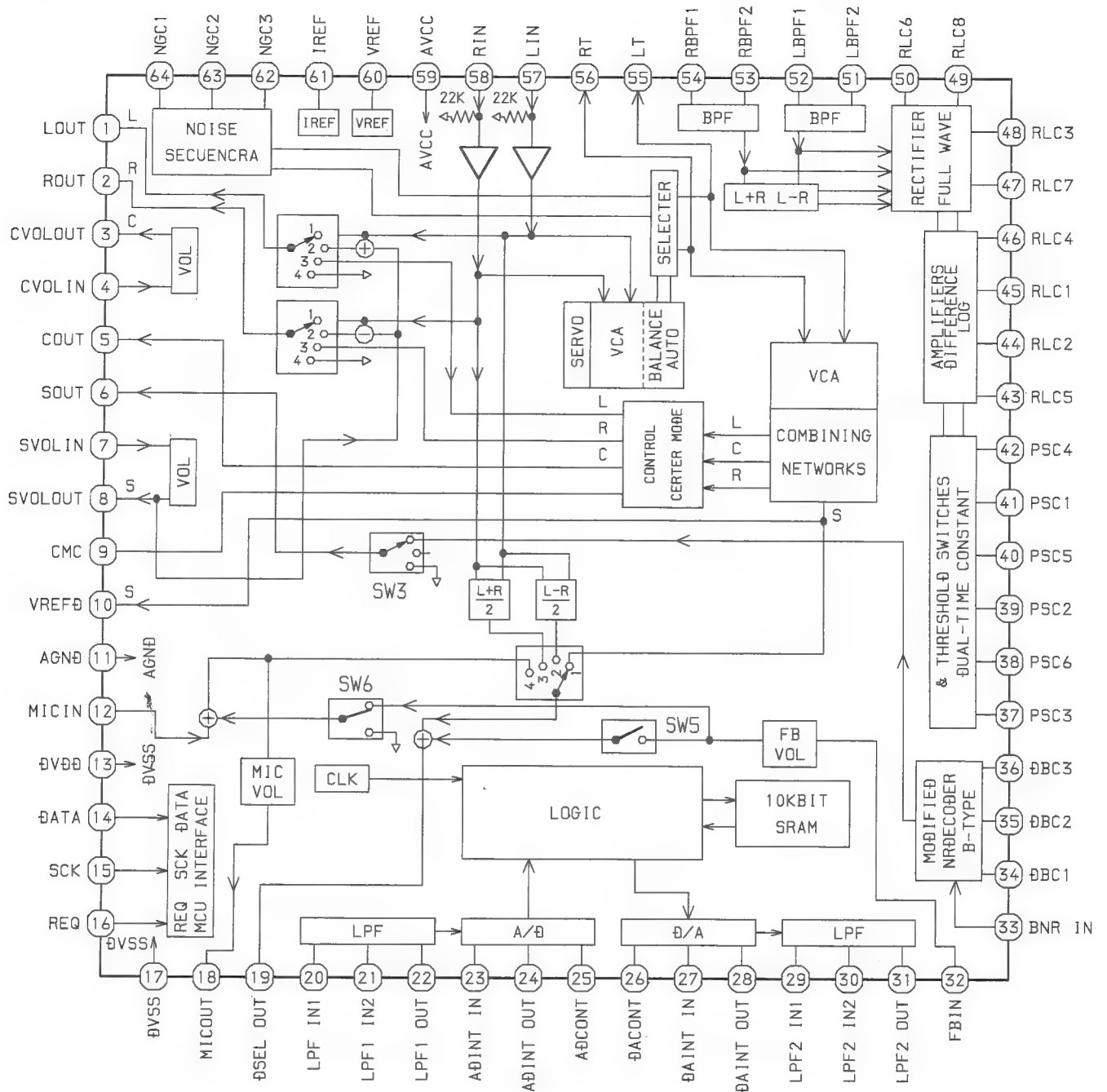


IC, NJM2152M

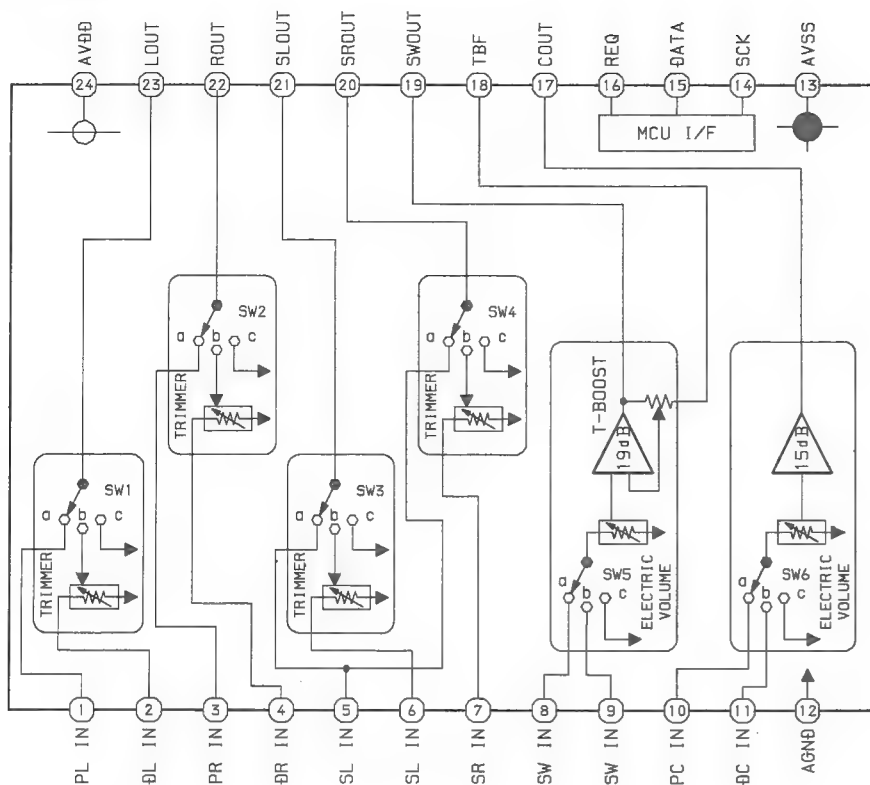


IC, M62445AFP

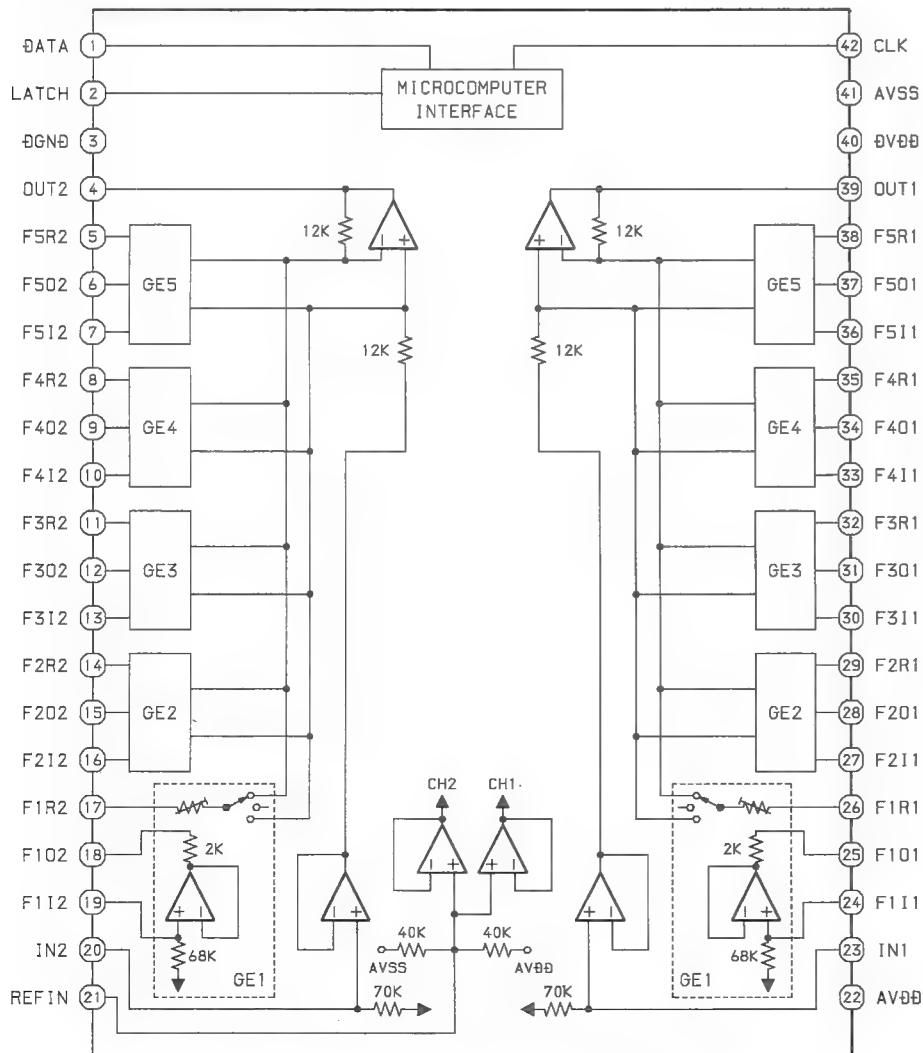




IC, M62491FP



IC, M62449FP



IC DESCRIPTION (MX-NH1100 / NAVH1200)

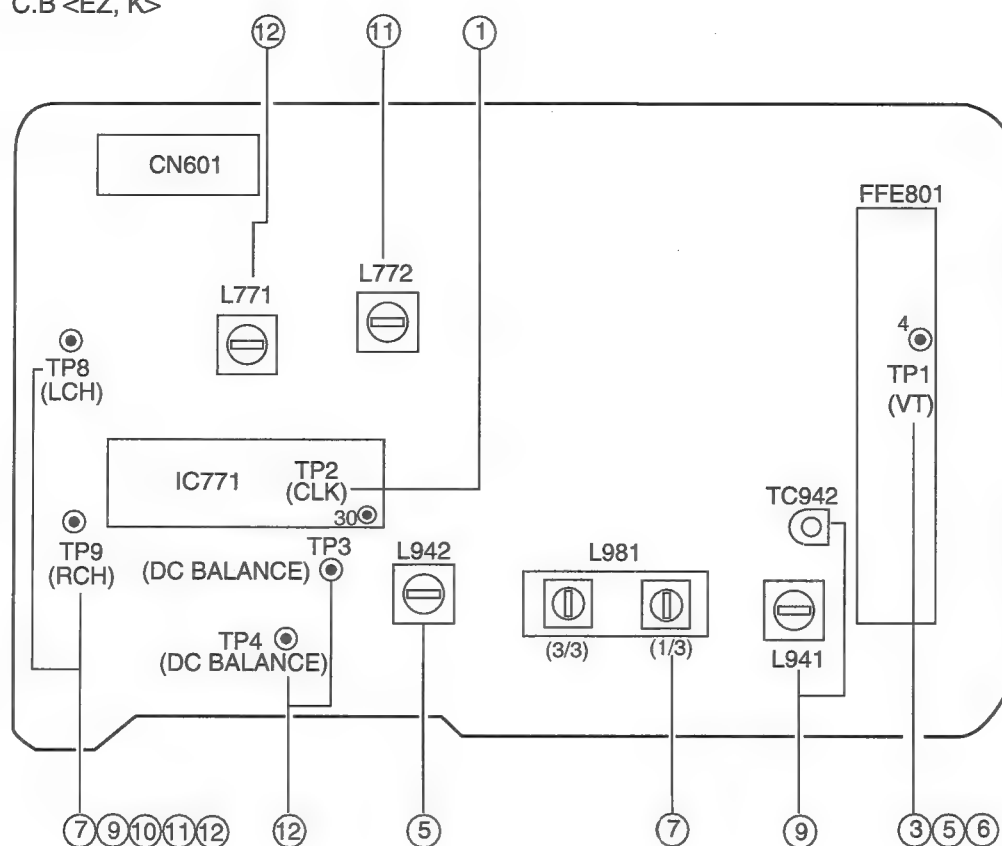
IC, UPD780228GF-034-3BA

Pin No.	Pin Name	I/O	Description
1	K-SCAN	O	Output scan for segment input (Active "H").
2	RHYTHM-CS	O	Chip select output to IC, BU9990-03.
3	RHYTHM-SCLK	O	Clock output to IC, BU9990-03.
4	RHYTHM-SD	O	Data output to IC, BU9990-03.
5	PLL CE	O	PLL IC chip enable output.
6	O-M/CLK	O	Main clock output.
7	O-M/DATA	O	Main data output.
8	O-M/STB	O	Main strobe output.
9	I/O-SERIAL	I/O	Communication port for GEQ, CD and DECK.
10	O-MUTE	O	System mute (ON when "H").
11	O-POWER	O	System power supply (ON when "L").
12	DIMER 2	O	Dimmer control ("L" when 2).
13	O-MUTE S	O	Sound L, R, Center, SW Mute.
14	LED-ECO	O	ECO LED output.
15	NC	–	Not connected.
16	NC	–	Not connected.
17	IC	–	Connect to GND.
18	VSS	–	GND.
19	VDD	–	Power supply terminal.
20	LED-MD	O	MD LED output.
21	TM BASE	I	Time base input.
22	TUNE/IF $\overline{\text{O}}$	I	Tuning detection input.
23	$\overline{\text{STEREO}}$	I	Stereo detection input.
24	NC	–	Not connected.
25	I-RE VOL A	I	Rotary Encoder Input A / B.
26	I-RE VOL B		
27	LED CD	O	CD LED output.
28	NC	–	Not connected.
29	I-RDS-CLK	I	RDS clock input.
30	$\overline{\text{RESET}}$	I	Reset input.
31	I-RDS-DATA	I	RDS data input.
32	GEQ-REQ	O	Latch output to IC, M62449FP.
33	COUNTER	I	Tape counter input.
34	I-RMC	I	Remote controller input (Active "L").
35	I-SURR-OFF	I	Stop surround function when using head phone.
36	O-SHIFT	O	Output for oscillated frequency shift.
37	VDD	–	Power supply terminal.
38	X2	–	4.19MHz oscillator circuit.
39	X1		
40	VSS	–	GND
41	AVDD	–	Power supply terminal.
42	$\overline{\text{HOLD}}$	I	Power failure / over current detected input.

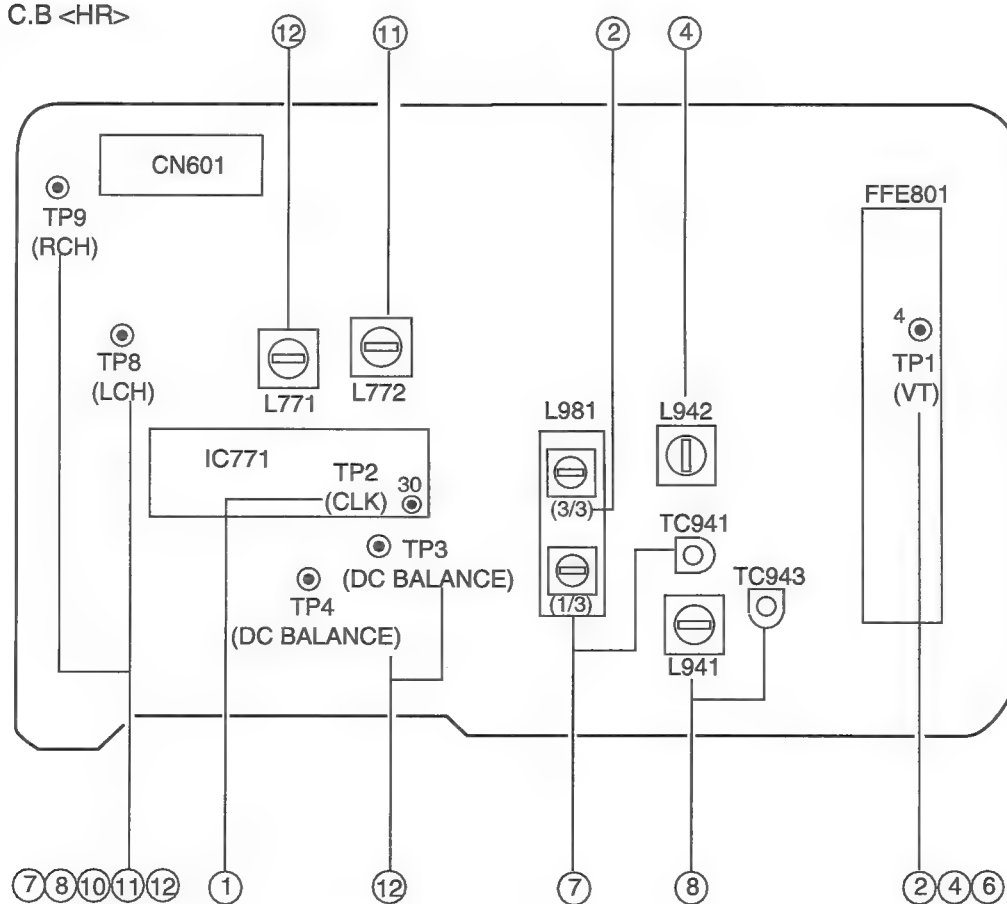
Pin No.	Pin Name	I/O	Description
43	I-RDS SIG	I	RDS signal input.
44	I-MIC	I	MIC input level detection.
45	I-KEY1	I	KEY1 input.
46	I-KEY2	I	KEY2 input.
47	TEMPO	I	TEMPO input (100Hz, 3.3kHz).
48	GE-2	I	DEMO, TIMER, CLOCK, SPICE A, AUTO SPICE / FILL IN input.
49	GE-1	I	JOG, SPICE B SW input.
50	AVSS	–	GND.
51	LED-TAPE	O	Tape LED output.
52	LED-TUNER	O	Tuner LED output.
53	LED-VIDEO	O	Video LED output.
54~58	P1~P5	O	FL segment output.
59	P6	I/O	FL segment output.
60	P7 / SEL2	I/O	FL segment output / SEL2 input <HR only>.
61	P8 / SEL1	I/O	FL segment output / SEL1 input <EZ,K only>.
62	P9 / PRO	I/O	FL segment output / PROLOGIC input.
63	P10 / w/o DEMO	I/O	FL segment output / Without DEMO input.
64	P11/V-CD	I/O	FL segment output / V-CD input.
65~78	P12~P25	O	FL segment output.
79	VDD	–	Power supply terminal.
80	-VFL	–	Power FL display negative supply terminal.
81~90	P26~P35	O	FL segment output.
91~100	G10~G1	O	FL grid output.

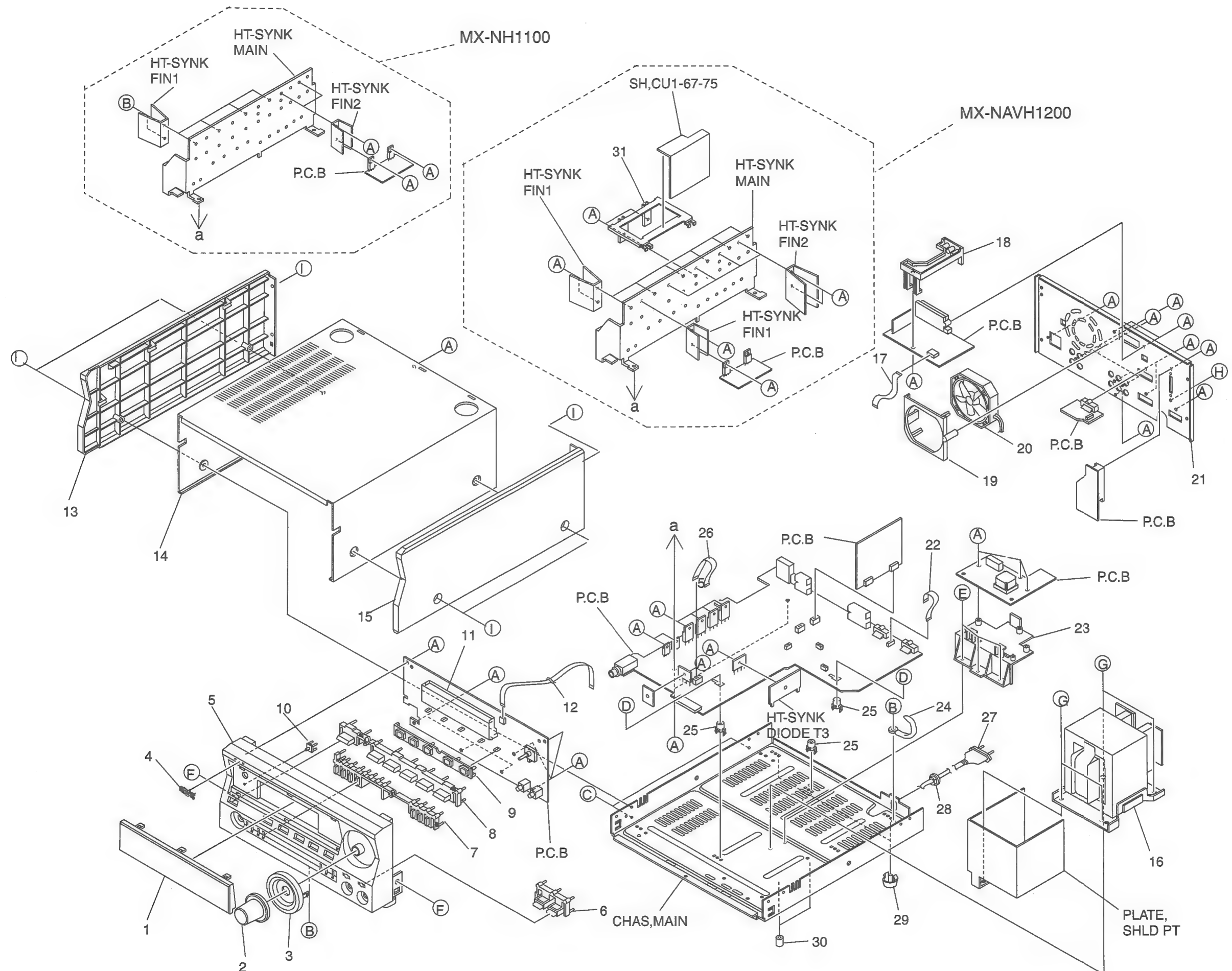
Pin No.	Pin Name	I/O	Description
1	MCLKONT	I	Controls built-in clock generation circuit with external R.
2	TEST1	I	Test mode change "H" Normal / "L" Test.
3	CLOCK	I	Clock input via serial bus.
4.	STB	I	Strobe input via serial bus.
5	DATA	I	Data input via serial bus.
6	CKO	O	Clock output.
7	CKI	I	Clock input.
8	Vcc	–	Power supply.
9	DELAY SOURCE OUT	O	(L+R) or (L-R) or MIC signal output.
10	TEST OUT	O	Memory / Mute / Sampling data output (Test mode) (Not connected).
11	LPF1 IN 1	I	Low Pass Filter 1 input 1.
12	LPF1 IN 2	I	Low Pass Filter 1 input 2.
13	LPF1 OUT	O	Low Pass Filter 1 output.
14	AD INT IN	I	A/D integrator input.
15	AD INT OUT	I	A/D integrator output.
16	GND	–	GND.
17	DAINT IN	I	D/A integrator input.
18	DAINT OUT	O	D/A integrator output.
19	LPF2 IN 1	I	Low Pass Filter 2 input 1.
20	LPF2 IN 2	I	Low Pass Filter 2 input 2.
21	LPF2 OUT	O	Low Pass Filter 2 output.
22	FVOL IN	I	Feedback volume input.
23	MIC OUT	O	Microphone output.
24	REF	–	Reference.
25	Rch OUT	O	Rch mixing output.
26	Lch OUT	O	Lch mixing output.
27	DELAY OUT	O	Delay signal output.
28	Rch IN	I	Rch mixing input.
29	Lch IN	I	Lch mixing input.
30	VDD	–	VDD.
31	MIC IN	I	Microphone input.
32	MVOL IN	I	Mix volume input.

C TUNER C.B <EZ, K>



C TUNER C.B <HR>





MECHANICAL PARTS LIST 1 / 1 (MX-NH1100 / NAVH1200)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SPM-002-010		WINDOW, DISPLAY<1200HR>	19	8Z-SP1-207-010		COVER, FAN
1	8Z-SP1-004-010		WINDOW, DISPLAY<1100HR>	20	87-A91-232-010		FAN, F614R-12MC-22-350MM
1	8Z-SP1-028-010		WINDOW, DISPLAY EZ<1100K, 1100EZ>	21	8Z-SPM-003-010		PANEL, REAR EZ<1200EZ>
1	8Z-SPM-009-010		WINDOW, DISPLAY EZ<1200K, 1200EZ>	21	8Z-SP1-022-010		PANEL, REAR EZSNM<1100EZ>
2	8Z-SP1-011-010		KNOB, RTRY VOL	21	8Z-SP1-003-010		PANEL, REAR HR<1100HR>
3	8Z-SP1-012-010		RING, VOL	21	8Z-SPM-008-010		PANEL, REAR HR<1200HR>
4	87-B00-002-010		BADGE, AIWA 30 ABS SIL	21	8Z-SPM-006-110		PANEL, REAR K<1200K>
5	8Z-SP1-001-010		CABI, FR<1100HR>	21	8Z-SP1-026-010		PANEL, REAR KSNM<1100K>
5	8Z-SPM-001-010		CABI, FR EZ<1200K, 1200EZ>	22	88-910-071-110		FF-CABLE, 10P 1.25 70MM
5	8Z-SP1-021-010		CABI, FR EZ<1100K, 1100EZ>	23	8Z-SP1-209-010		HLDR, PWB ECO
5	8Z-SPM-005-010		CABI, FR HR<1200HR>	24	87-064-185-010		HLDR, WIRE
6	8Z-SP1-007-010		KEY, BBE	25	8Z-SP1-208-010		HLDR, PWB 13.5
7	8Z-SP1-008-010		KEY, KARAOKE<HR>	26	8Z-SP1-627-010		F-CABLE, 7P 2.5 280MM
7	8Z-SP1-016-110		KEY, RDS<K, EZ>	27	87-A80-143-010		AC-CORD ASSY, E<1200K>
8	8Z-SP1-010-010		KEY, ASSY FUN	27	87-050-079-010		AC-CORD ASSY, E<EXCEPT 1200K>
9	8Z-SP1-202-010		GUIDE, LED FUN	28	87-085-185-010		BUSHING, AC CORD (E)
10	8Z-SP1-015-010		REFLECTOR, ECO	29	87-085-213-010		FOOT, H12.5
11	88-SX1-203-210		GUIDE, FL	30	8Z-NB8-240-010		COVER, PL
12	88-908-281-110		FF-CABLE, 8P 1.25 280MM<1100>	31	88-SPM-208-010		HLDR, PWB PRO<1200>
12	88-906-301-110		FF-CABLE, 6P-1.25<1200>	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
13	8Z-SP1-017-010		PANEL, SIDE L	B	87-067-688-010		BVTT+3-6
14	8Z-SP1-002-010		CABI, STEEL	C	87-721-095-410		QT2+3-8GLD W/O SLOT
15	8Z-SP1-018-010		PANEL, SIDE R	D	87-B10-190-010		BVT2+3-22 W/O SLOT
16	88-SPM-604-010		PT, EZ<1200K, 1200EZ>	E	87-067-579-010		BVT2+3-8 W/O SLOT
16	88-SPM-602-010		PT, HE<1200HR>	F	87-591-094-410		TAPPING SCREW, QIT+3-6
16	88-SP1-604-010		PT, EZ<1100EZ>	G	87-078-019-010		S-SCREW, IT+4-6
16	88-SP1-602-010		PT, HE<1100HR>	H	81-653-215-010		SPECIAL SCREW, VT2.6-8<HR>
16	88-SP1-606-010		PT, K<1100K>	I	87-067-641-010		UTT2+3-8(W/O SLOT)BL
17	88-911-121-110		FF-CABLE, 11P 1.25				
18	88-AR1-203-010		HLDR, TU				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

MODEL NO.

DX-NH1100

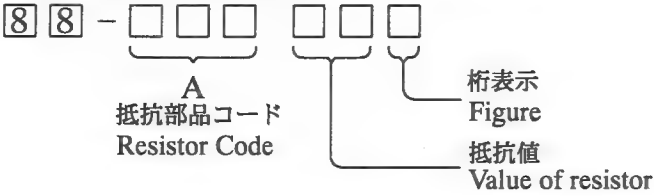
ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C254	87-010-178-080		CHIP CAP 1000P
	8Z-SX1-607-010	C-IC,UPD78046HGF-024-3B9		C255	87-010-178-080		CHIP CAP 1000P
TRANSISTOR				C256	87-010-178-080		CHIP CAP 1000P
	87-026-263-080	C-TR,RN1410		CN1	87-099-669-010		CONN,8P TUC-P8X-B1
	87-A30-076-080	C-TR,2SC3052F		CN2	87-099-559-010		CONN,13P TUC-P13X-B1
DIODE				FL201	8Z-SX1-608-010		FL,6-BT-303GNK
	87-020-465-080	DIODE,1SS133 (110MA)		L1	87-005-152-080		COIL,10UH
	87-070-136-080	ZENER,MTZJ5.1B		L2	87-005-152-080		COIL,10UH
MAIN C.B				L3	87-005-152-080		COIL,10UH
C301	87-010-322-080	C-CAP,S 100P-50 CH		L5	87-005-152-080		COIL,10UH
C304	87-010-196-080	CHIP CAPACITOR,0.1-25		LED203	87-A40-263-080		LED,SLH-56PCT31 GRN
C305	87-010-197-080	CAP, CHIP 0.01 DM		LED204	87-A40-263-080		LED,SLH-56PCT31 GRN
C310	87-016-462-080	C-CAP,S 1-16 F		LED205	87-A40-317-080		LED,SLR-342VCT31 RED
C311	87-016-462-080	C-CAP,S 1-16 F		LED206	87-A40-317-080		LED,SLR-342VCT31 RED
C312	87-016-462-080	C-CAP,S 1-16 F		LED207	87-A40-317-080		LED,SLR-342VCT31 RED
C313	87-010-184-080	CHIP CAPACITOR 3300P(K)		S201	87-A90-095-080		SW,TACT EVQ11G04M
C314	87-010-402-040	CAP,E 2.2-50 SME		S202	87-A90-095-080		SW,TACT EVQ11G04M
CN301	87-009-241-010	CONNECTOR, 11P		S203	87-A90-095-080		SW,TACT EVQ11G04M
CN302	87-099-194-010	CONN,6P 6216V		S204	87-A90-095-080		SW,TACT EVQ11G04M
CN303	87-099-015-010	CONN,13P 6216V		S205	87-A90-095-080		SW,TACT EVQ11G04M
CN304	87-099-667-010	CONN,8P TUC-P8P-B1		S206	87-A90-095-080		SW,TACT EVQ11G04M
CN305	87-099-570-010	CONN,13P TUC-P13P-B1		S207	87-A90-095-080		SW,TACT EVQ11G04M
FB301	87-008-372-080	FILTER, EMI BL OIRNI		S208	87-A90-095-080		SW,TACT EVQ11G04M
FB302	87-008-372-080	FILTER, EMI BL OIRNI		X1	87-A70-075-080		VIB,CER 4.19MHZ CRHF
FB303	87-008-372-080	FILTER, EMI BL OIRNI		KEY C.B			
FB304	87-008-372-080	FILTER, EMI BL OIRNI		S101	87-A90-095-080		SW,TACT EVQ11G04M
FB305	87-008-372-080	FILTER, EMI BL OIRNI		S102	87-A90-095-080		SW,TACT EVQ11G04M
FB306	87-008-372-080	FILTER, EMI BL OIRNI					
FB307	87-008-372-080	FILTER, EMI BL OIRNI					
L301	87-005-152-080	COIL,10UH					
L302	87-005-165-080	COIL 1UH (H,E)					
W301	88-SX1-610-010	CORD,FG 11P					
W302	88-906-481-110	FF-CABLE,6P 1.25 480MM					
W303	88-913-121-110	FF-CABLE,P1.25					
FRONT C.B							
C1	87-010-264-040	CAP,E 100-10 5L					
C2	87-010-072-040	CAP,E 2.2-50 5L					
C4	87-010-246-040	CAP,E 47-35 SME					
C5	87-010-190-080	S CHIP F 0.01					
C6	87-010-196-080	CHIP CAPACITOR,0.1-25					
C7	87-010-197-080	CAP, CHIP 0.01 DM					
C8	87-010-314-080	C-CAP,S 22P-50V					
C9	87-010-316-080	C-CAP,S 33P-50 CH					
C10	87-010-315-080	C-CAP,S 27P-50 CH					
C11	87-010-196-080	CHIP CAPACITOR,0.1-25					
C12	87-010-197-080	CAP, CHIP 0.01 DM					
C14	87-010-405-040	CAP,E 10-50					
C15	87-010-405-040	CAP,E 10-50					
C201	87-018-134-080	CAPACITOR,TC-U 0.01-16					
C202	87-010-197-080	CAP, CHIP 0.01 DM					
C203	87-010-197-080	CAP, CHIP 0.01 DM					
C204	87-018-134-080	CAPACITOR,TC-U 0.01-16					
C251	87-010-178-080	CHIP CAP 1000P					
C252	87-010-178-080	CHIP CAP 1000P					
C253	87-010-178-080	CHIP CAP 1000P					

チップ抵抗部品コード／CHIP RESISTOR PART CODE

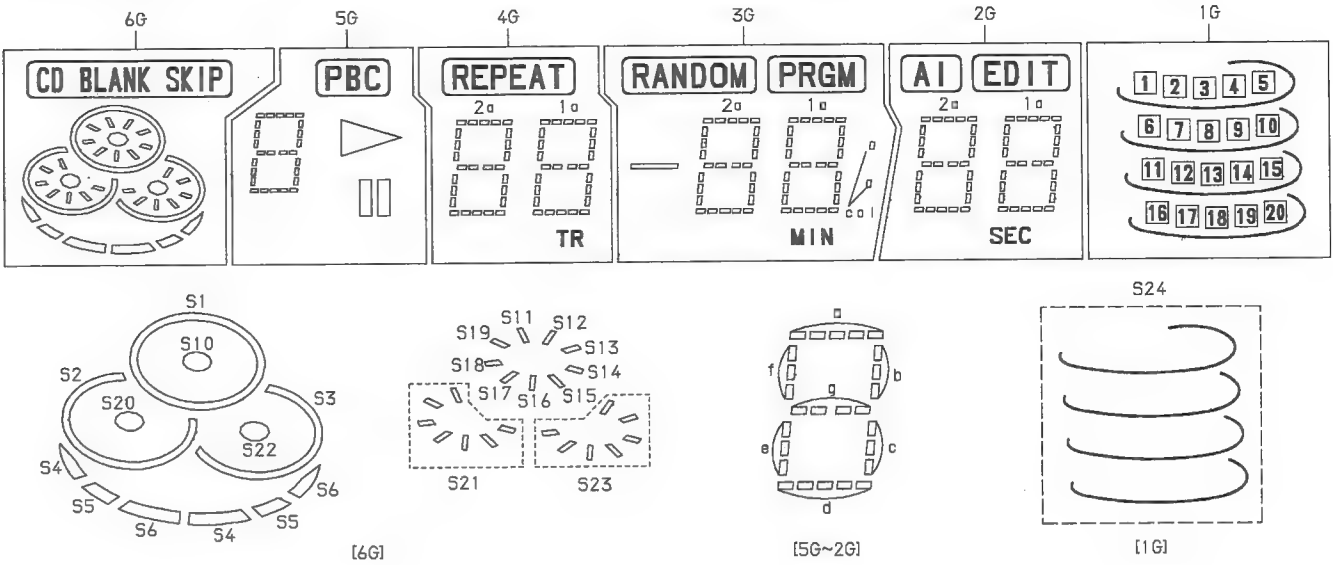
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



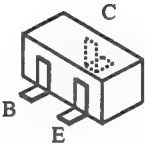
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

GRID ASSIGNMENT & ANODE CONNECTION (DX-NH1100)



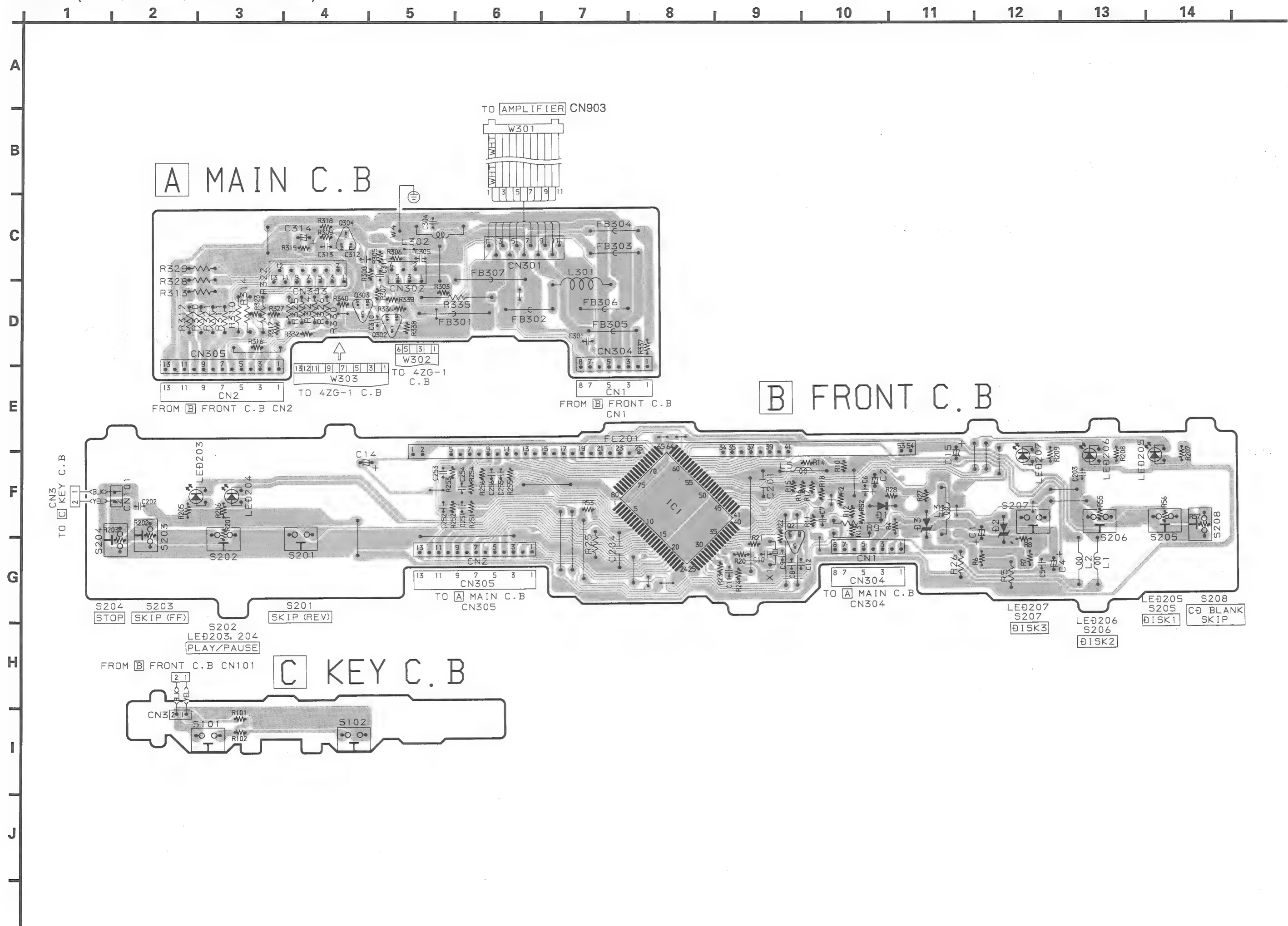
TRANSISTOR ILLUSTRATION (DX-NH1100)



2SC3052
RN1410

ANODE CONNECTION

	6G	5G	4G	3G	2G	1G
P1	S10	a	1a	1a	1a	1
P2	S12	b	1b	1b	1b	2
P3	S11	f	1f	1f	1f	3
P4	S13	g	1g	1g	1g	4
P5	S19	c	1c	1c	1c	5
P6	S14	e	1e	1e	1e	6
P7	S18	d	1d	1d	1d	7
P8	S15	-	-		-	8
P9	S17		2a	2a	2a	9
P10	S16		2b	2b	2b	10
P11	S1	-	2f	2f	2f	11
P12	S20	-	2g	2g	2g	12
P13	S21	-	2c	2c	2c	13
P14	S2	-	2e	2e	2e	14
P15	S22	-	2d	2d	2d	15
P16	S23	-	TR	MIN	SEC	16
P17	S3	PBC	REPEAT	col	EDIT	17
P18	S4	(PBC)	(REPEAT)	PRGM	(EDIT)	18
P19	S5	-	-	(PRGM)	AI	19
P20	S6	-	-	RANDOM	(AI)	20
P21	CD BLANK SKIP	-	-	(RANDOM)	-	S24
P22	(CD BLANK SKIP)	-	-	-	-	-

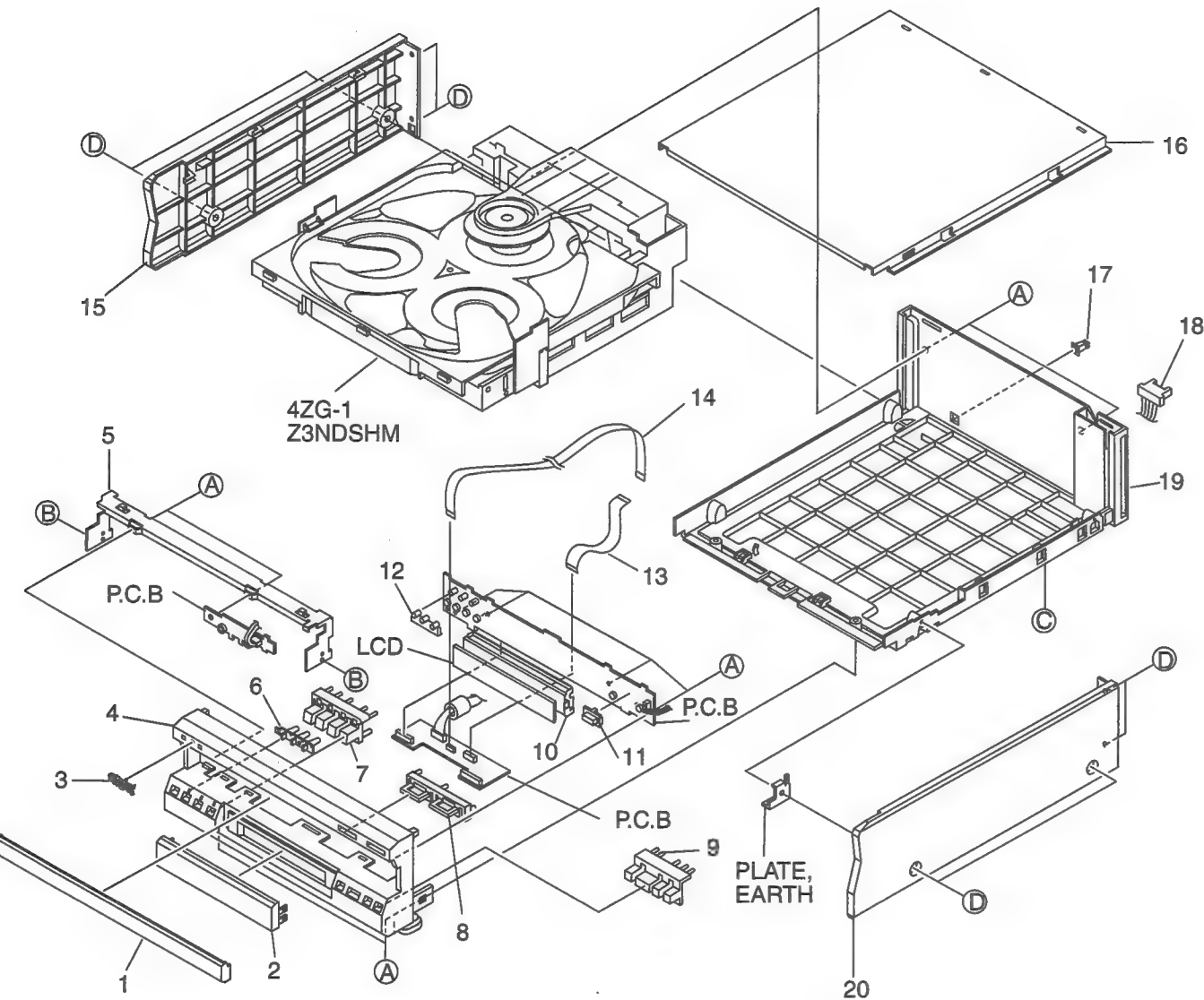


IC DESCRIPTION (DX-NH1100)

IC, UPD78046HGF-032-3B9

Pin No.	Pin Name	I/O	Description
1	NC	–	Not connected.
2~7	G6~G1	O	FL grid output G6~G1.
8	VDD	–	Power supply terminal.
9	O-DISH R	O	CD turntable reverse rotation output.
10	O-DISH F	O	CD turntable forward rotation output.
11	O-CD LED	O	CD flash window LED ON/OFF output.
12	I/O BUSY	I/O	DSP serial latch output.
13	I-SQCLK	I	DSP SUB Q read-out clock output.
14	O-CLK	O	CD clock output.
15	O-DATA	O	CD data output.
16	I-SQDATA	I	DSP serial data input.
17	RESET	I	Reset input.
18	O-TRYOPN	O	CD tray open output.
19	O-TRYCLS	O	CD tray close output.
20	A VSS	–	GND.
21	I-WRQ	I	CD WRQ input.
22	I-SW	I	CD motor key switch A/D input.
23	I-DISH S	I	CD turntable photo sensor A/D input.
24	B-SKIP	I	BLANK SKIP A/D input.
25	I-KEY1	I	Key1 A/D input.
26	I-KEY2	I	Key2 A/D input.
27	NC	–	Not used.
28	NC	–	Not used.
29	A VDD	–	Power supply terminal.
30	A VREF	–	Power supply terminal.
31	XT1	–	Connect to GND.
32	XT2	–	Connect to GND.
33	VSS	–	GND.
34	X1	–	4.19MHz oscillator circuit.
35	X2		
36	O-SHIFT	O	Micro controller clock shift output. (Shift when "L").
37	O-CD ON	O	Power supply output for CD circuit ("H": ON).
38	LED-2	O	Play LED output.
39	LED-1	O	Pause LED output.
40	NC	–	Not used.
41	O-MUTE	O	CD Audio mute output.
42	NC	–	Not used.
43	I/O-SERIAL	I/O	Serial data input / output.
44~46	NC	–	Not used.
47,48	IC	–	Connect to GND.
49	LED4	ⓘ	Disc1 LED output.
50	LED5	O	Disc2 LED output.

Pin No.	Pin Name	I/O	Description
51	LED6	O	Disc3 LED output.
52	VDD	–	Power supply terminal.
53	NC	–	Not used.
54	NC	–	Not used.
55	P22 (O-SEG V)	O	FL segment output P22.
56	P19 (O-SEG S)	O	FL segment output P19.
57	P18 (O-SEG R)	O	FL segment output P18.
58	P17 (O-SEG Q)	O	FL segment output P17.
59	P16 (O-SEG P)	O	FL segment output P16.
60	P15 (O-SEG O)	O	FL segment output P15.
61	P20 (O-SEG T)	O	FL segment output P20.
62	P21 (O-SEG U)	O	FL segment output P21.
63	P9 (O-SEG I)	O	FL segment output P9.
64	P10 (O-SEG J)	O	FL segment output P10.
65	P11 (O-SEG K)	O	FL segment output P11.
66	P12 (O-SEG L)	O	FL segment output P12.
67	P13 (O-SEG M)	O	FL segment output P13.
68	P14 (O-SEG N)	O	FL segment output P14.
69, 70, 72~77	P8~1 (O-SEG H~A)	O	FL segment output P8~P1.
71	-VFL	–	FL display negative supply terminal.
78~80	NC	–	Not connected.



If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SX1-002-010		PANEL, TRAY
2	8Z-SX1-003-010		WINDOW, CD
3	87-B00-002-010		BADGE, AIWA 30 ABS SIL
4	8Z-SX1-001-010		CABI, FR
5	8Z-SX1-201-010		HLDR, CD
6	8Z-SX1-009-010		REFLECTOR, DISC
7	8Z-SX1-005-010		KEY, DISC
8	8Z-SX1-004-010		KEY, OPEN
9	8Z-SX1-008-010		KEY, ASSY OPE
10	88-SX1-203-210		GUIDE, FL
11	8Z-SX1-202-010		GUIDE, LED OPE
12	8Z-SX1-203-010		GUIDE, LED DISC
13	88-913-121-110		FF-CABLE, P1.25
14	88-906-481-110		FF-CABLE, 6P 1.25 480MM
15	8Z-SX1-011-010		PANEL, SIDE L
16	8Z-SX1-013-010		CABI, STEEL
17	84-ZG1-245-210		CAP, OPTICAL
18	88-SX1-610-010		CORD, FG 11P
19	8Z-SX1-016-010		CABI, REAR YJSM<YJ>
19	8Z-SX1-017-010		CABI, REAR YSM<Y>
20	8Z-SX1-012-010		PANEL, SIDE R
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-721-097-410		QT2+3-12 GLD
C	87-067-633-010		TAPPING SCREW, BVT2+3-8
D	87-B10-091-010		UTT2+3-10 W/O BLK

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

MODEL NO.

FX-NH1100

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C356	87-010-260-080		CAP, ELECT 47-25V
				C357	87-010-197-080		C-CAP,S 0.01-25 KB C2012
	87-A20-455-010	IC,HA12211		C358	87-010-183-080		C-CAP,S 2700P-50 B
	87-A20-355-010	IC,CXA1553P		C359	87-010-183-080		C-CAP,S 2700P-50 B
	8Z-SW1-608-040	IC,M38503M4-094FP T4		C360	87-010-183-080		C-CAP,S 2700P-50 B
	87-020-454-010	IC,DN6851					
TRANSISTOR				C370	87-010-196-080		CHIP CAPACITOR,0.1-25
				C371	87-010-179-080		CAP,CHIP S B1200P
				C372	87-010-179-080		CAP,CHIP S B1200P
				C373	87-010-179-080		CAP,CHIP S B1200P
				C374	87-010-179-080		CAP,CHIP S B1200P
	87-A30-087-080	C-FET,2SK2158					
	87-A30-074-080	C-TR,RT1P 141C		C375	87-010-545-080		CAP, ELECT 0.22-50V
	87-026-610-080	TR,KTC3198GR		C376	87-010-545-080		CAP, ELECT 0.22-50V
	87-A30-073-080	C-TR,RT1N 141C		C378	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-076-080	C-TR,2SC3052F		C381	87-010-197-080		C-CAP,S 0.01-25 KB C2012
				C382	87-010-318-080		C-CAP,S 47P-50 CH
	89-112-965-080	TR,2SA1296 (0.75W)					
	87-A30-085-070	C-TR,CSA1362GR		C383	87-010-197-080		C-CAP,S 0.01-25 KB C2012
	89-318-155-080	TR,2SC1815 (0.4W)		C384	87-010-403-080		CAP, ELECT 3.3-50V
	89-332-665-080	TR,2SC3266GR<YJSM>		C385	87-010-184-080		CHIP CAPACITOR 3300P(K)
	87-A30-164-080	TR,CSC2001K<YSM>		C386	87-010-196-080		CHIP CAPACITOR,0.1-25
				C399	87-010-197-080		CAP, CHIP 0.01 DM<YSM>
	87-026-263-080	C-TR,RN1410					
	87-A30-071-080	C-TR,RT1N 144C		C601	87-015-997-090		CAP,E 2200-16 SME
	87-026-463-080	TR,2SA933SRS		C602	87-010-381-080		CAP, ELECT 330-16V
DIODE				C603	87-010-101-080		CAP, ELECT 220-16
				C604	87-010-237-080		CAP, ELECT 1000-16V
				C605	87-010-198-080		CAP, CHIP 0.022
	87-A40-269-080	C-DIODE,MC2836					
	87-020-465-080	DIODE,1SS133 (110MA)		C606	87-010-404-080		CAP, ELECT 4.7-50V
	87-017-931-080	ZENER,MTZJ5.6B		C607	87-010-263-080		CAP, ELECT 100-10V
MAIN C.B				C609	87-010-196-080		CHIP CAPACITOR,0.1-25
				C610	87-010-318-080		C-CAP,S 47P-50 CH
				C611	87-010-312-080		C-CAP,S 15P-50 CH
	C301	87-010-318-080	C-CAP,S 47P-50 CH	C612	87-010-315-080		C-CAP,S 27P-50 CH
	C302	87-010-318-080	C-CAP,S 47P-50 CH	C613	87-010-404-080		CAP, ELECT 4.7-50V
	C303	87-012-157-080	C-CAP,S 330P-50 CH	C614	87-010-197-080		CAP, CHIP 0.01 DM
	C304	87-012-157-080	C-CAP,S 330P-50 CH	CN301	87-049-919-010		CONN,3P EH V WHT
	C305	87-012-145-080	CAP, CHIP S 270P CH	CN501	87-099-750-010		CONN,15P V 9604SC
	C306	87-012-145-080	CAP, CHIP S 270P CH				
	C307	87-010-196-080	CHIP CAPACITOR,0.1-25	CN702	87-A60-062-010		CONN,05P V 9604S-05C
	C311	87-010-198-080	CAP, CHIP 0.022	CN704	87-A60-060-010		CONN,07P V 9604S-07C
	C312	87-010-198-080	CAP, CHIP 0.022	FB301	87-008-372-080		FILTER, EMI BL OIRNI
	C313	87-010-180-080	C-CER 1500P	FB601	87-008-372-080		FILTER, EMI BL OIRNI
				FB602	87-008-372-080		FILTER, EMI BL OIRNI
	C314	87-010-180-080	C-CER 1500P				
	C315	87-010-178-080	CHIP CAP 1000P<YSM>	FB603	87-008-372-080		FILTER, EMI BL OIRNI
	C316	87-010-178-080	CHIP CAP 1000P<YSM>	FB604	87-A90-923-010		F-BEAD,8-13-14 E1314MRT
	C317	87-012-142-080	CAP, S 0.33-16	L301	87-A50-049-010		COIL,TRAP 85K(COI)
	C318	87-012-142-080	CAP, S 0.33-16	L302	87-A50-049-010		COIL,TRAP 85K(COI)
				L351	87-007-342-010		COIL,OSC 85K BIAS
	C319	87-012-141-080	CHIP-CAPACITOR,0.22-16F				
	C320	87-012-141-080	CHIP-CAPACITOR,0.22-16F	L601	87-005-130-080		COIL,10UH
	C321	87-012-141-080	CHIP-CAPACITOR,0.22-16F	L603	87-005-130-080		COIL,10UH
	C322	87-012-141-080	CHIP-CAPACITOR,0.22-16F	PIN301	87-099-827-010		CONN,3P S2M-3W
	C324	87-010-260-080	CAP, ELECT 47-25V	PIN351	87-099-832-010		CONN,8P S2M-8W
				SFR301	87-024-355-080		SFR,33K DIA6 H
	C325	87-010-370-080	CAP,E 330-6.3 SME				
	C327	87-010-404-080	CAP, ELECT 4.7-50V	SFR302	87-024-355-080		SFR,33K DIA6 H
	C328	87-010-404-080	CAP, ELECT 4.7-50V	SFR303	87-024-355-080		SFR,33K DIA6 H
	C332	87-010-196-080	CHIP CAPACITOR,0.1-25	SFR304	87-024-355-080		SFR,33K DIA6 H
	C335	87-010-401-080	CAP, ELECT 1-50V	SFR305	87-024-356-080		SFR,47K DIA6 H
				SFR306	87-024-356-080		SFR,47K DIA6 H
	C336	87-010-401-080	CAP, ELECT 1-50V				
	C337	87-010-196-080	CHIP CAPACITOR,0.1-25	SFR351	87-024-356-080		SFR,47K DIA6 H
	C339	87-010-196-080	CHIP CAPACITOR,0.1-25	SFR352	87-024-356-080		SFR,47K DIA6 H
	C340	87-010-196-080	CHIP CAPACITOR,0.1-25	W601	88-SW1-607-010		CORD,FG9P
	C351	87-012-140-080	CAP 470P	X601	87-A70-120-080		VIB,8.00MHZ MTZ-TF01
	C352	87-012-140-080	CAP 470P				
	C354	87-010-175-080	CAP 560P<YSM>	FRONT-1 C.B			
	C355	87-010-178-080	CHIP CAP 1000P<YSM>	CN701	87-A60-062-010		CONN,05P V 9604S-05C

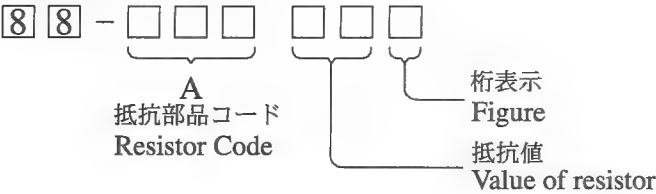
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
D701	87-070-278-010		LED,SLZ-738A-24-S	HEAD-2 C.B			
D702	87-002-787-080		LED,SEL 6215S RED				
S701	87-A90-095-080		SW,TACT EVQ11G04M		85-ZM3-602-010		PWB, FLEX A
S702	87-A90-095-080		SW,TACT EVQ11G04M				
S703	87-A90-095-080		SW,TACT EVQ11G04M				
				DECK C.B			
S704	87-A90-095-080		SW,TACT EVQ11G04M				
					CN502	87-099-756-010	CONN,15P 9604 S F
					SFR1	87-024-581-089	SFR,3.3K DIA 6H
FRONT-2 C.B					SOL1	82-ZM1-618-010	SOL ASSY, 27
					SOL2	82-ZM1-618-010	SOL ASSY, 27
CN703	87-A60-060-010		CONN,07P V 9604S-07C		SW1	87-A90-248-010	SW,MICROESE11SH2CXQ
D711	87-A40-496-040		LED,SLR-342MCT31 GRN				
D712	87-A40-496-040		LED,SLR-342MCT31 GRN	SW2	87-A90-248-010		SW,MICROESE11SH2CXQ
D713	87-A40-496-040		LED,SLR-342MCT31 GRN	SW3	87-A90-248-010		SW,MICROESE11SH2CXQ
D714	87-070-278-010		LED,SLZ-738A-24-S	SW4	87-036-110-010		SW,MICRO SPPB62
				SW5	87-036-110-010		SW,MICRO SPPB62
S711	87-A90-095-080		SW,TACT EVQ11G04M	SW6	87-036-110-010		SW,MICRO SPPB62
S712	87-A90-095-080		SW,TACT EVQ11G04M				
S713	87-A90-095-080		SW,TACT EVQ11G04M	SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
S714	87-A90-095-080		SW,TACT EVQ11G04M	SW9	87-036-110-010		SW,MICRO SPPB62
S715	87-A90-095-080		SW,TACT EVQ11G04M	W1	82-ZM3-601-010		RBN,CORD 4P-75

HEAD-1 C.B			
	85-ZM3-602-010		PWB, FLEX A


○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形/Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128



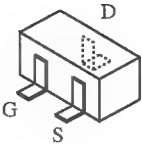
E C B

2SC1815
2SC3266
CSC2001K
KTC3198GR

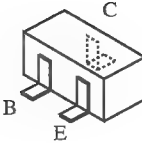


B C E

2SA1296



2SK2158



2SC3052

CSA1362
RN1410
RT1N141C
RT1N144C
RT1P141C



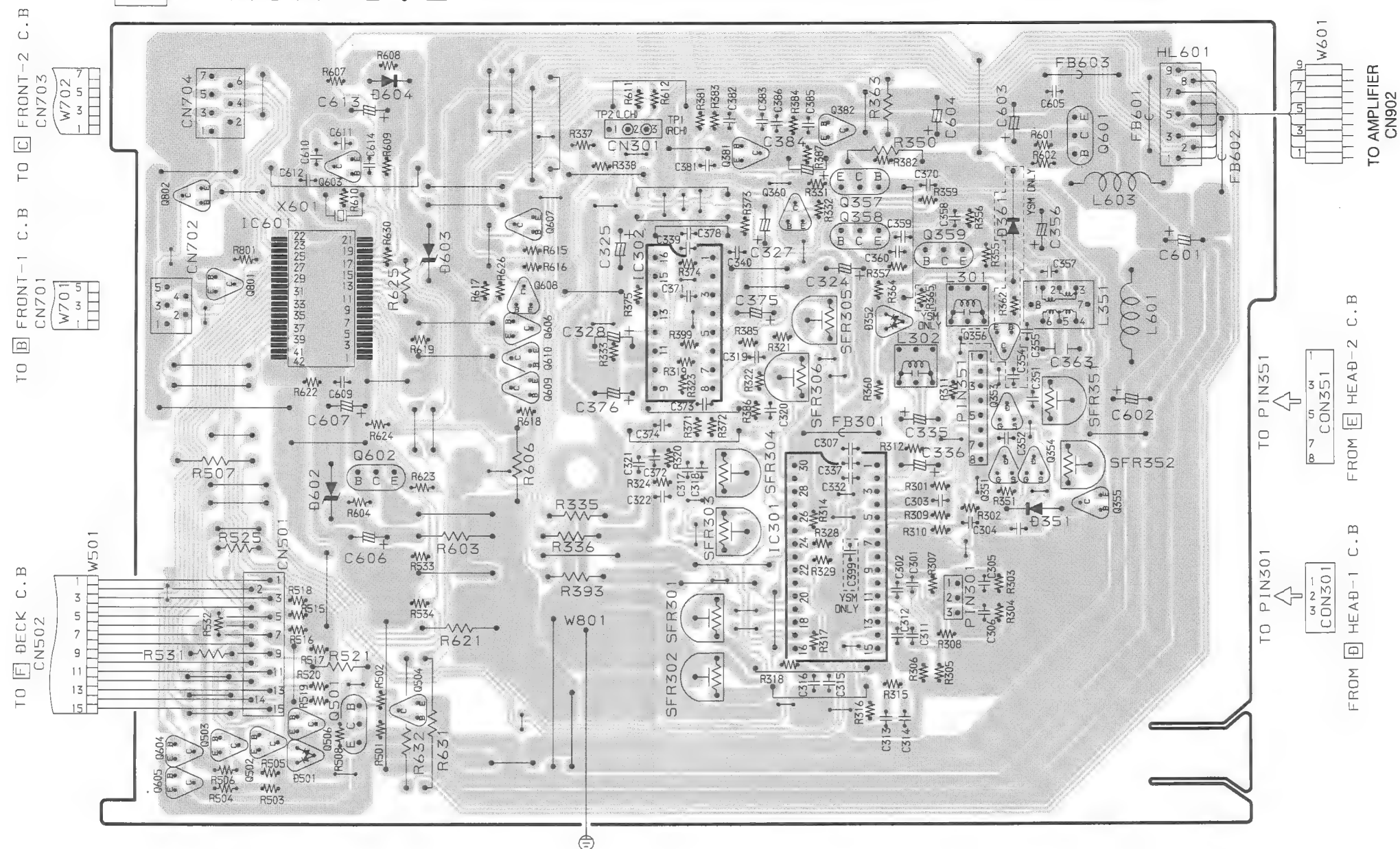
E C B

2SA933SRS

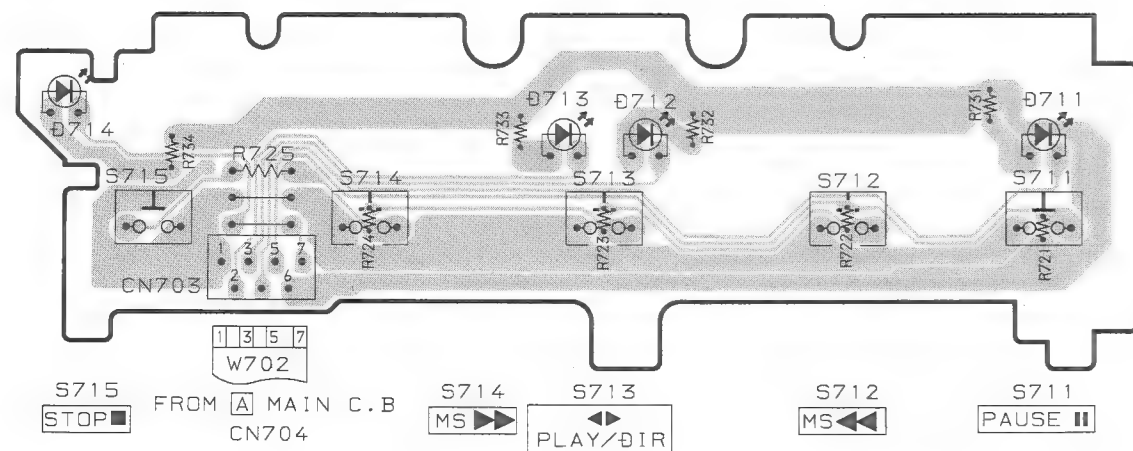
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A
B
C
D
E
F
G
H
I
J

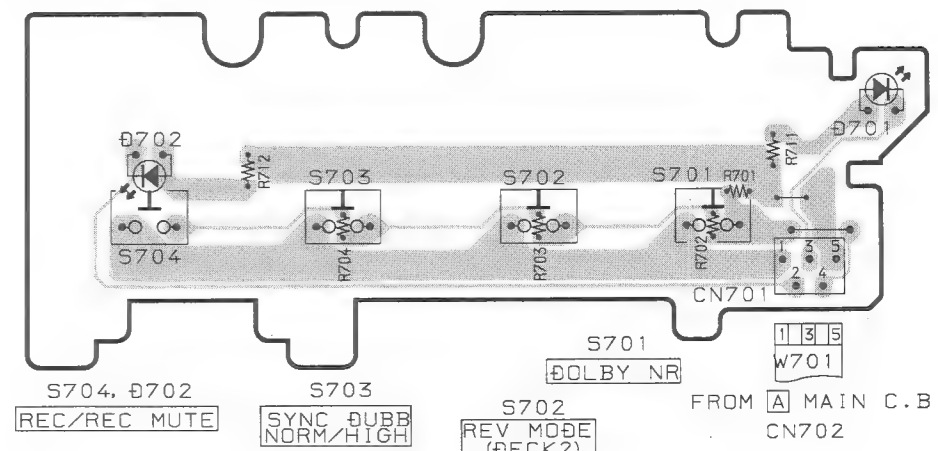
A MAIN C.B

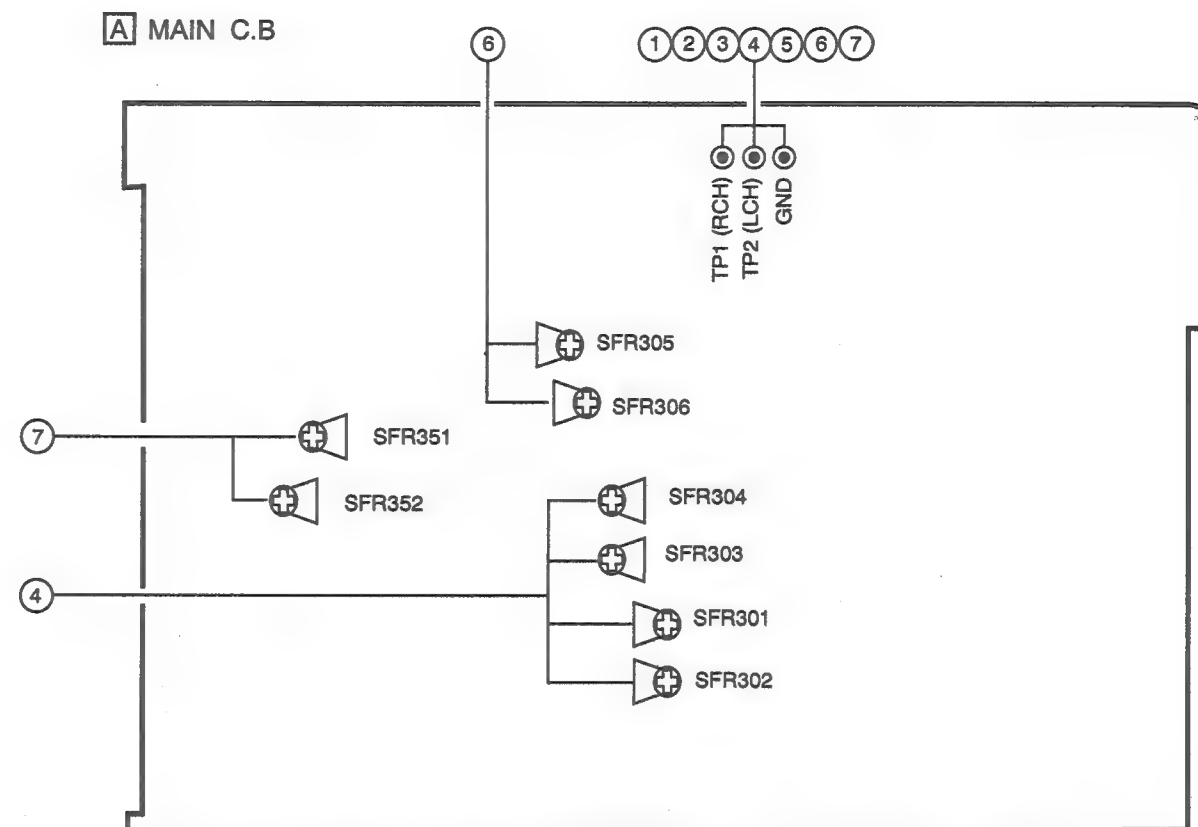
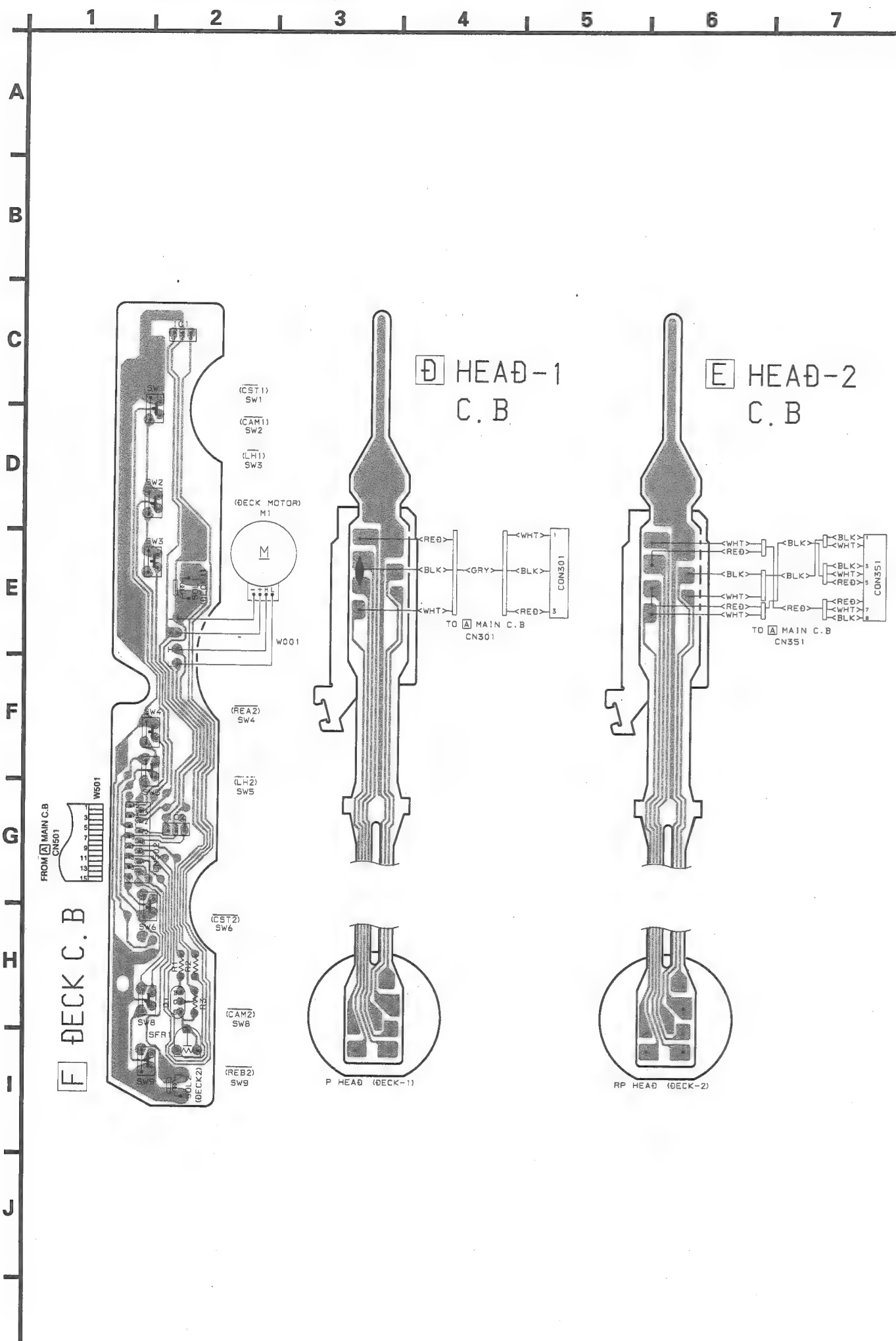


C FRONT-2 C.B



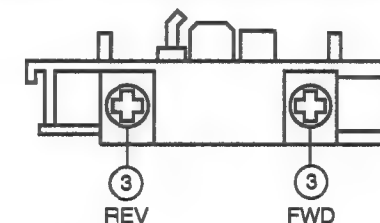
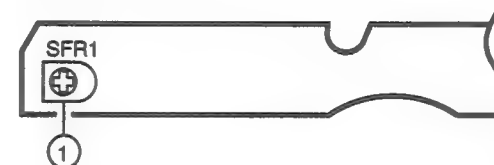
B FRONT-1 C.B





F DECK C.B.

DECK-1 P, DECK-2R/P/E HEAD HEAD



< DECK SECTION >

- 1. Tape Normal Speed Adjustment (DECK1, DECK2)**

Settings : • Test tape : TTA-100 (Tape center)
 • Test point : TP1 (Rch), TP2 (Lch)
 • Adjustment location : SFR1

Method : Play back the test tape and adjust SFR1 so that the test point becomes $3000\text{Hz} \pm 5\text{Hz}$ (FWD). Then check REV speed is $3000\text{Hz} \pm 45\text{Hz}$.
- 2. High Speed Check (DECK1, DECK2)**

Settings : • Test tape : TTA-100 (Tape center)
 • Test point : TP1 (Rch), TP2 (Lch)

Method : After normal speed adjustment, play back (High speed) the test tape. Then check tape speed is $6000\text{Hz} \pm 400\text{Hz}$ (FWD).
- 3. Head Azimuth Adjustment (DECK1, DECK2)**

Settings : • Test tape : TTA-300
 • Test point : TP1 (Rch), TP2 (Lch)
 • Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.
- 4. PB Sensitivity Adjustment (DECK1, DECK2)**

Settings : • Test tape : TTA-200
 • Test point : TP1 (Rch), TP2 (Lch)
 • Adjustment location : SFR301 (DECK1, Lch)
 SFR302 (DECK1, Rch)
 SFR303 (DECK2, Lch)
 SFR304 (DECK2, Rch)

Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 245mV (DECK2), 260mV (DECK1).
- 5. PB Frequency Response Check (DECK1, DECK2)**

Settings : • Test tape : TTA-300
 • Test point : TP1 (Rch), TP2 (Lch)

Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is 0dB. Next, check that the Lch and Rch difference level of 10kHz signal is less than 2dB.

6. REC/PB Sensitivity Adjustment (DECK2)

Settings : • Test tape : TTA-602
 • Test point : TP1 (Rch), TP2 (Lch)
 • Input signal : 1kHz (LINE IN)
 • Adjustment location : SFR305 (Lch)
 SFR306 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP1, TP2 becomes 0dB (17mV). Record and play back the 1kHz signals and adjust SFRs so that the output is 0dB \pm 0.5dB.

7. REC/PB Frequency Response Adjustment (DECK2)

Settings : • Test tape : TTA-602
 • Test point : TP2 (Lch), TP1 (Rch)
 • Input signal : 1kHz / 10kHz
 (LINE IN)
 • Adjustment location : SFR351 (Lch)
 SFR352 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP1, TP2 becomes 0dB (17mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signals becomes 0dB \pm 0.5dB with respect to that of the 1kHz signal.

<DECK SECTION>

Tape speed : 3000Hz \pm 45Hz
 Wow & flutter : Less than 0.21% (W.R.M.S DECK 1, 2)
 Pinch roller pressure : 270 ~ 330g (FWD, REV)
 Take-up torque : 30 ~ 55g-cm (FWD, REV)
 F.F & REW torque : 75 ~ 160g-cm (FWD)
 75 ~ 160g-cm (REW)
 Back tension : 3 \pm 4g-cm (DECK 1, 2)
 PB Output level : 245mV \pm 1dB (DECK 1)
 230mV \pm 1dB (DECK 2)
 REC/PB Output level : 165mV \pm 2dB (NORMAL, CrO2)
 Distortion (REC/PB) : Less than 2.0% (NORMAL, CrO2)
 Noise level (PB) : Less than 1.8mV
 (NORMAL, ALL FUNCTION OFF)
 Noise level (REC/PB) : Less than 2.0mV
 (NORMAL, ALL FUNCTION OFF)
 Erasing ratio : More than 60dB (at 125Hz, 10VU)
 Test tape : NORMAL : TTA-602
 CrO2 : TTA-615

IC DESCRIPTION (FX-NH1100)

IC, M38503M4-094FP T4

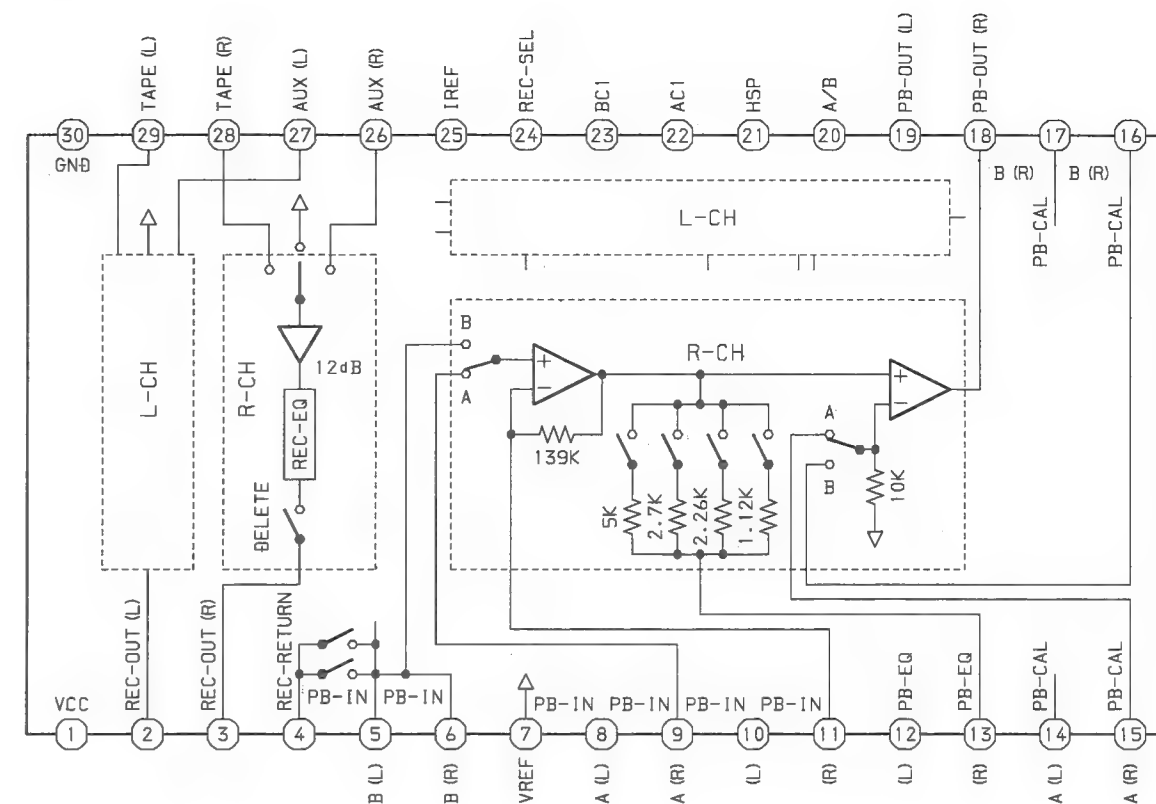
Pin No.	Pin Name	I/O	Description												
1	VCC	–	IC power supply.												
2	V-REF	–	Connected to VCC.												
3	AVSS	–	Connected to GND.												
4	NC	–	Not connected.												
5	I-AUTO1	I	Input of DECK 1 reel platform pulse.												
6	I-AUTO2	I	Input of DECK 2 reel platform pulse.												
7	O-PB-SEL	O	Three-state output. *2 <table><tr><td></td><td>O-REC-SEL</td><td>O-PB-SEL</td></tr><tr><td>L</td><td>TAPE</td><td>DECK 2 REC</td></tr><tr><td>H</td><td>REC IN</td><td>DECK 2 PB</td></tr><tr><td>H1-Z</td><td>REC MUTE</td><td>DECK 1 PB</td></tr></table>		O-REC-SEL	O-PB-SEL	L	TAPE	DECK 2 REC	H	REC IN	DECK 2 PB	H1-Z	REC MUTE	DECK 1 PB
	O-REC-SEL	O-PB-SEL													
L	TAPE	DECK 2 REC													
H	REC IN	DECK 2 PB													
H1-Z	REC MUTE	DECK 1 PB													
8	O-REC-SEL	O													
9	NC	–	Not connected.												
10	O-NR	O	When NR is ON: “L”.												
11	O-BIAS	O	BIAS control.												
12	O-LMT	O	Output LINE MUTE. When MUTE: “H”.												
13	O-COUNTER	O	Output tape counter data.												
14	SERIAL I/O	I/O	Serial I/O terminal.												
15	CN VSS	–	Connected to GND.												
16	O-B BEAT	O	For bias beat changeover. When in operation: “H”. Initial: “L”.												
17	O-C SHIFT	O	While clock shift: “L” **												
18	RESET	I	RESET signal input pin.												
19	XIN	I	Crystal oscillation pin.												
20	XOUT	O	Crystal oscillation pin.												
21	VSS	–	Connected to GND.												
22	D-FWD	O	When Power is ON: “L” under STOP status. When FWD operates: flashing (“L” ↔ “H” repeated). While FF: fast flashing.												
23	D-RVS	O	When Power is ON: “L” under STOP status. When RVS operates: flashing (“L” ↔ “H” repeated). While REW: fast flashing.												
24	D-PAUSE	O	When Power is ON: “L” under STOP status. While PAUSE: flashing (“L” ↔ “H” repeated).												
25	D-REC	O	While REC, DUBBING: “L”. While REC, MUTE: flashing.												
26	D-NR	O	When NR is ON: “L”. (Not connected)												
27	O-MOTOR	O	When MOTOR is in operation or power on (500msec): “H”.												
28	O-SOL2	O	When DECK 2 solenoid is in operation: “H”.												
29	O-SOL1	O	When DECK 1 solenoid is in operation: “H”.												
30	O-POWER	O	When POWER of MX-NM1000 / NH1000 is ON: “H” **												
31	I-CST-2	I	DECK 2 cassette detection. When cassette exists: “L”.												
32	I-RE-B	I	DECK 2 side B REC enable. When recordable: “L”.												
33	I-CAM-2	I	DECK 2 cam. When switch is ON: “L”.												
34	O-HSP	O	Output high speed signal. High speed: “L”.												
35	I-CAM-1	I	DECK 1 mechanism cam. When switch is ON: “L”.												
36	I-CST-1	I	DECK 1 cassette detection. When cassette exists: “L”.												
37	I-RE-A	I	DECK 2 side A REC enable. When recordable: “L”												

Pin No.	Pin Name	I/O	Description
38	O-DIMMER	O	Ordinarily "H". When MX-NH1100 is in DIMMER 1 or 2 mode: "L".
39	I-KEY2	I	KEY input 2. AD input.
40	I-KEY1	I	KEY input 1. AD input.
41	I-MS	I	MS input. AD input.
42	I-HOLD	I	System power supply monitor. AD input.

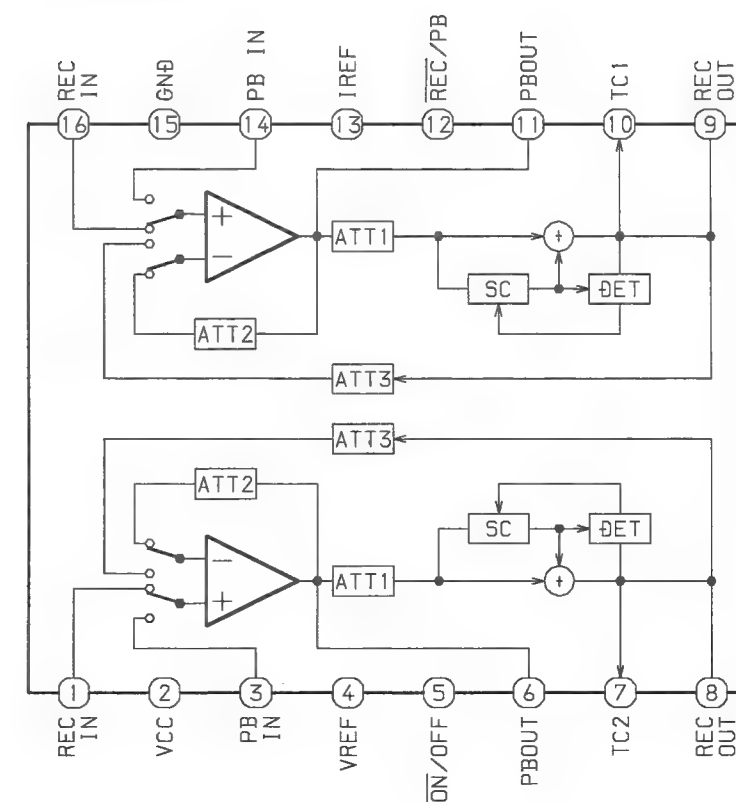
*P1Ns 22, 23, 24, 25, and 26 should be "H" when MX-NH1100 is in DIMMER 2 mode.

IC BLOCK DIAGRAM (FX-NH1100)

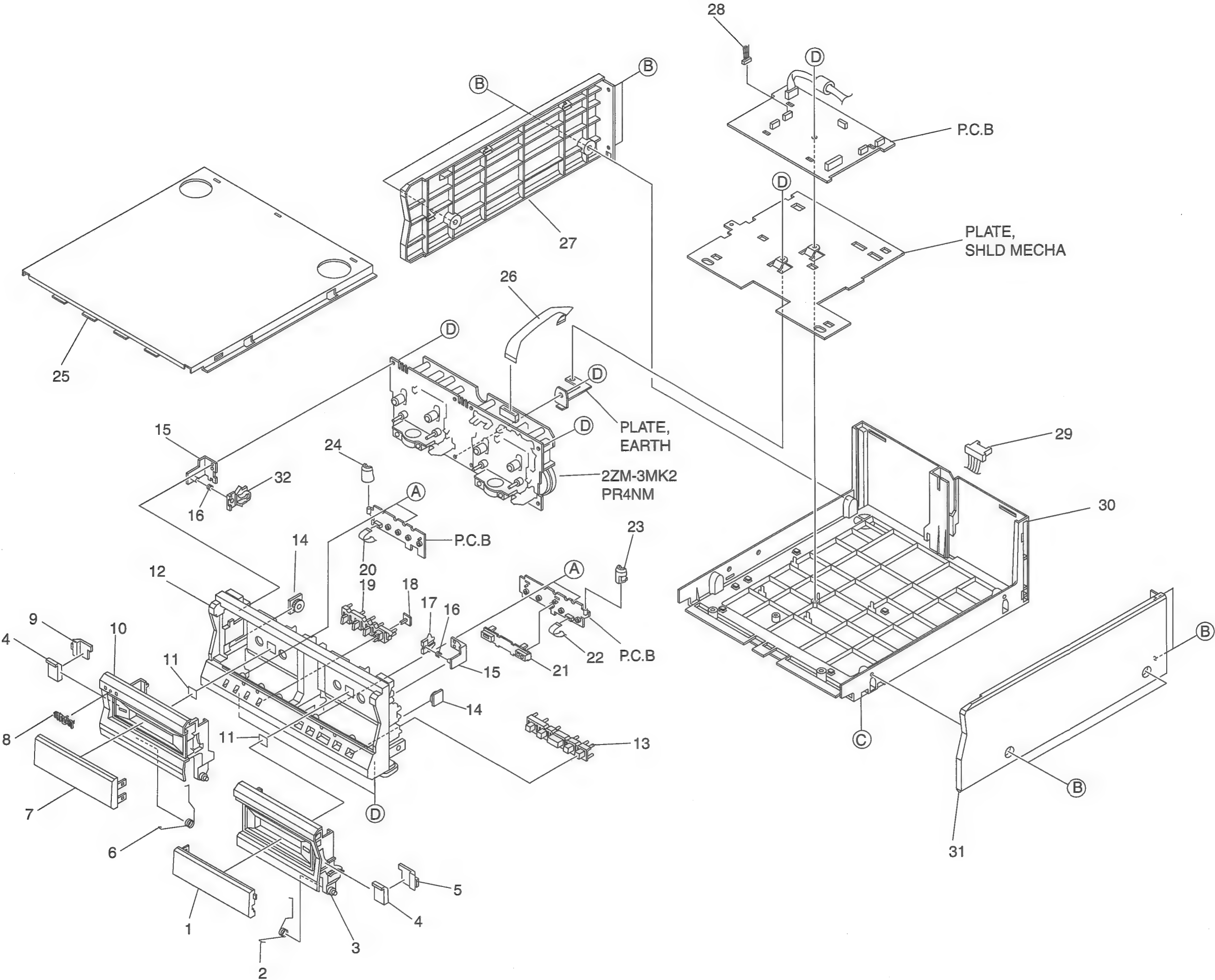
IC, HA12211



IC, CXA1553P



ATT:Attenuator
SC:Side Chain
DET:Detector

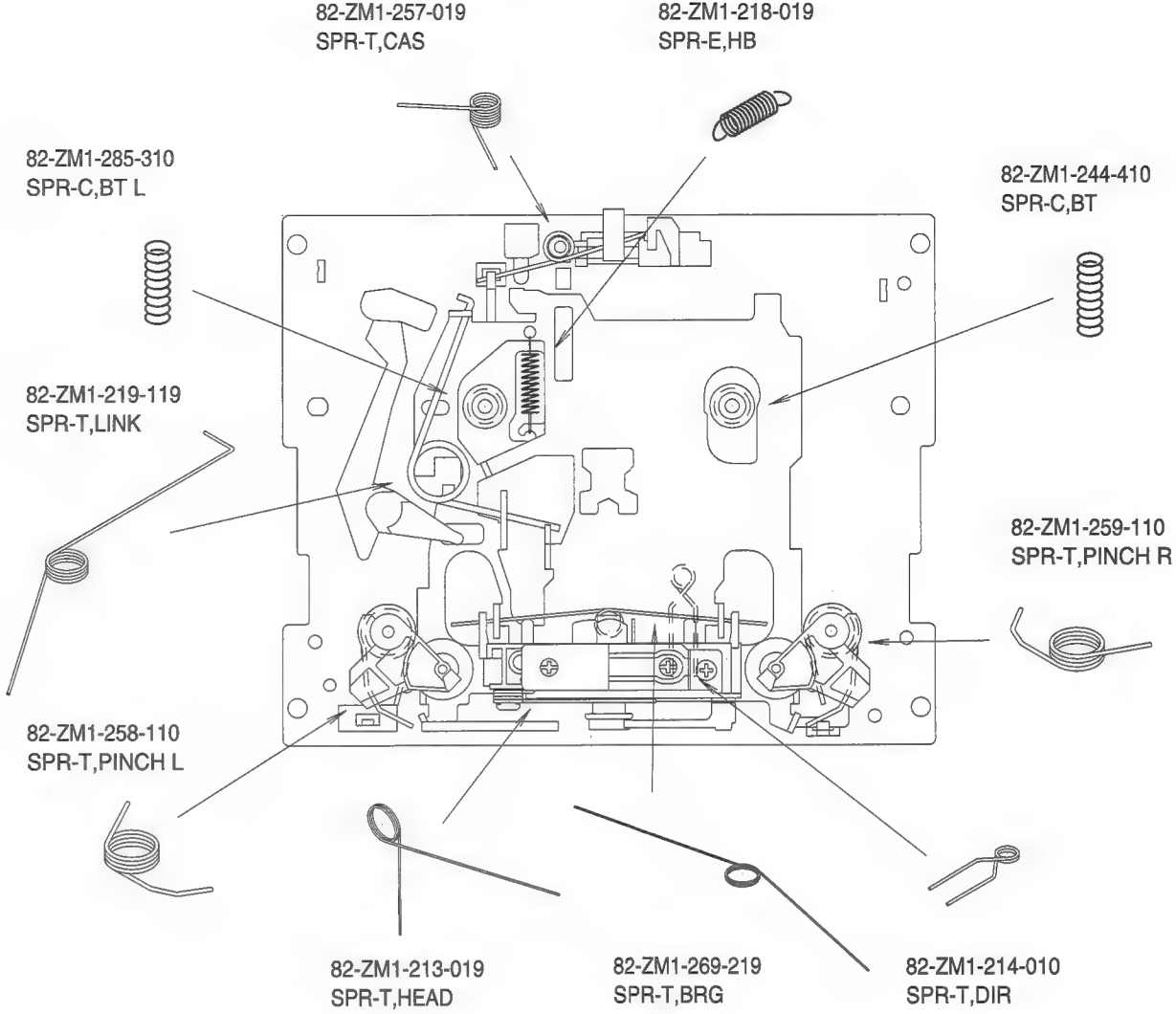


MECHANICAL PARTS LIST 1 / 1 (FX-NH1100)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

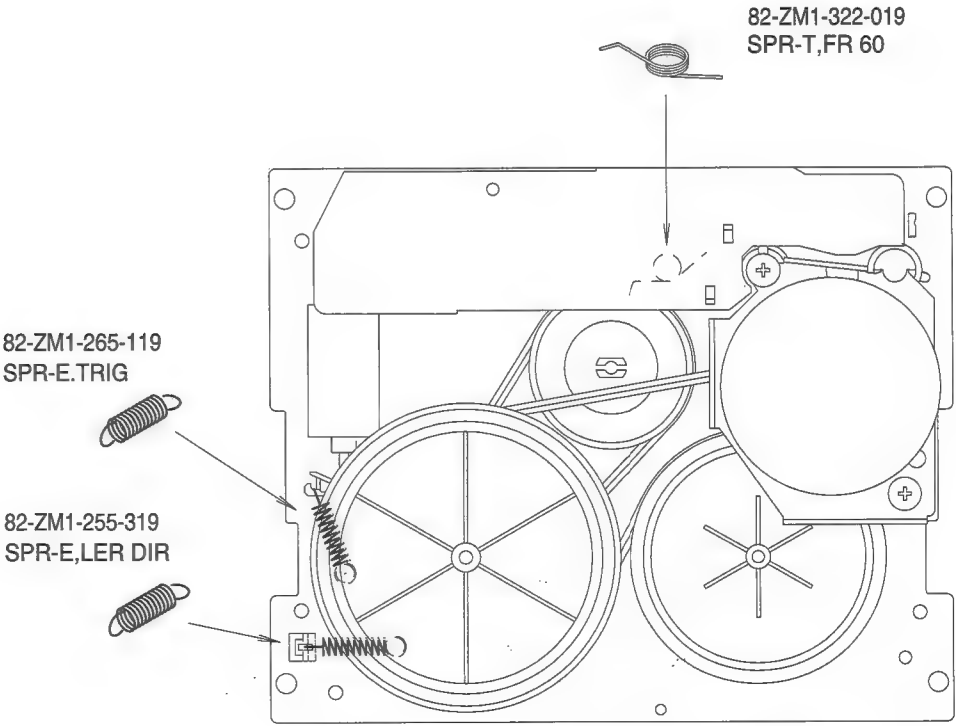
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SW1-005-010		WINDOW,CASS 2	21	8Z-SW1-203-010		GUIDE,LED OPE
2	82-NF5-219-010		SPR-T,EJECT 2 (SIN)	22	88-907-301-110		FF-CABLE, 7P 1.25
3	8Z-SW1-003-010		BOX,CASS 2	23	8Z-SW1-206-010		GUIDE,LED CASS 2
4	8Z-SW1-013-010		REFLECTOR,CASS 1	24	8Z-SW1-205-010		GUIDE,LED CASS 1
5	8Z-SW1-202-010		COVER, REFLECTOR 2	25	8Z-SW1-015-010		CABI,STEEL
6	82-NF5-218-010		SPR-T,EJECT 1 (SIN)	26	88-915-161-110		FF-CABLE, 15P 1.25
7	8Z-SW1-004-010		WINDOW,CASS 1	27	8Z-SW1-016-010		PANEL,SIDE L
8	87-B00-002-010		BADGE,AIWA 30 ABS SIL	28	86-NF5-618-110		CONN ASSY,8P RPB
9	8Z-SW1-201-010		COVER, REFLECTOR 1	29	88-SW1-607-010		CORD,FG9P
10	8Z-SW1-002-010		BOX,CASS 1	30	8Z-SW1-020-010		CABI,REAR YJSM<YJ>
11	81-532-080-010		LABEL, CASS. COMPT	30	8Z-SW1-022-010		CABI,REAR YSM<Y>
12	8Z-SW1-001-010		CABI,FR	31	8Z-SW1-017-010		PANEL,SIDE R
13	8Z-SW1-012-010		KEY,ASSY OPE	32	87-NF4-216-010		HLD R,LOCK 1
14	87-NF8-220-010		DMP R,150	A	87-067-579-010		TAPPING SCREW, BVT2+3-8
15	82-NF5-229-010		PLATE,LOCK	B	87-B10-091-010		UTT2+3-10 W/O BLK
16	86-NF9-224-010		SPR-C,LOCK	C	87-067-633-010		TAPPING SCREW, BVT2+3-8
17	87-NF4-217-110		HLD R,LOCK 2	D	87-067-703-010		TAPPING SCREW, BVT2+3-10
18	8Z-SW1-204-010		GUIDE,LED				
19	8Z-SW1-011-010		KEY,ASSY REC				
20	88-905-331-110		FF-CABLE, 5P 1.25 330MM				

SPRING APPLICATION POSITION (FX-NH1100)

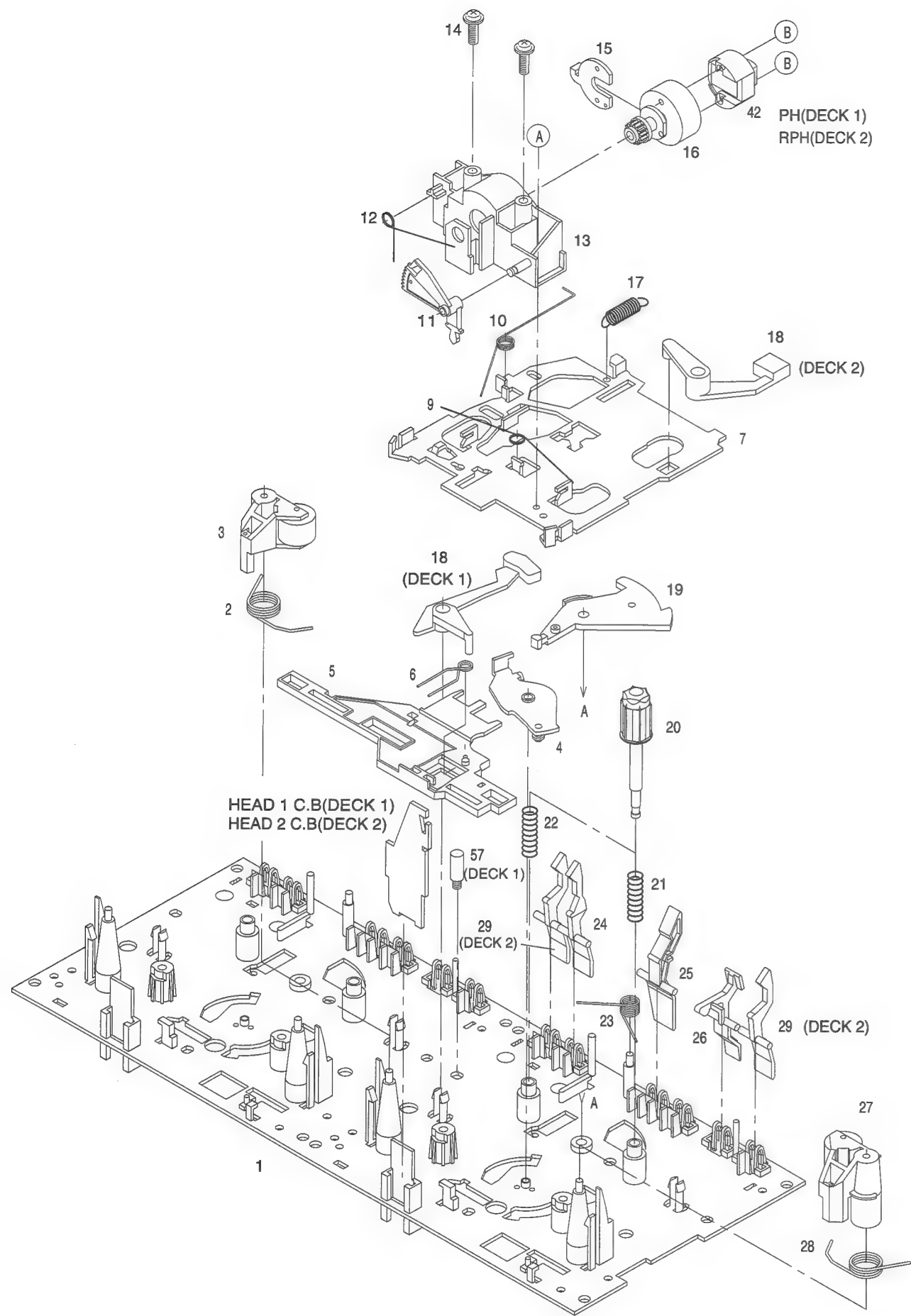


COLOR NAME TABLE

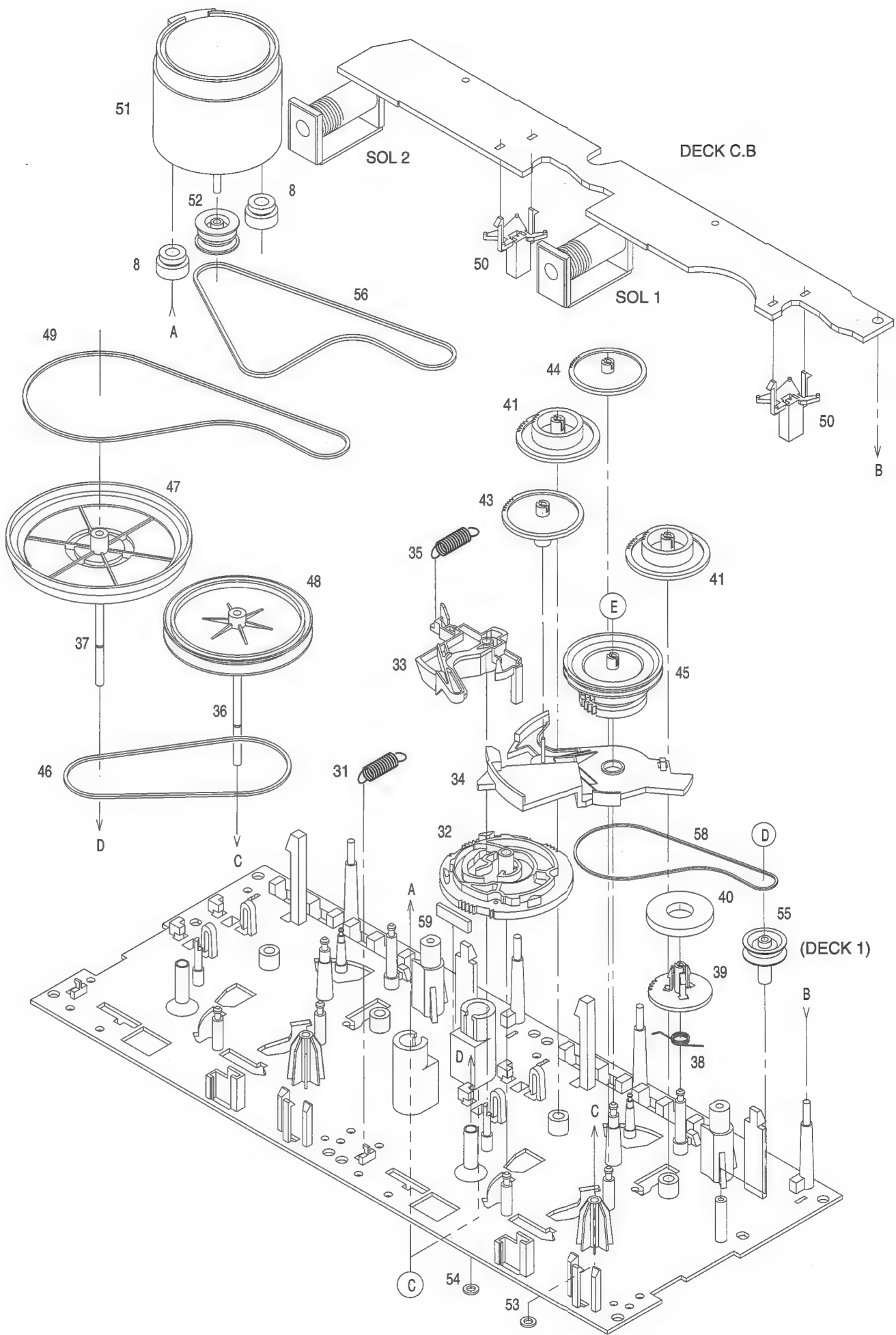
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		



TAPE MECHANISM EXPLODED VIEW 1 / 2 (FX-NH1100)



TAPE MECHANISM EXPLODED VIEW 2 / 2 (FX-NH1100)



TAPE MECHANISM PARTS LIST 1 / 1 (FX-NH1100)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2	36	82-ZM1-236-019		CAPSTAN N 2-41.5
2	82-ZM1-258-110		SPR-T,PINCH L	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
3	82-ZM1-341-110		LVR ASSY,PINCH L2	38	82-ZM1-322-019		SPR-T,FR60
4	82-ZM1-333-010		PLATE,LINK 2	39	82-ZM1-220-219		GEAR,IDLER
5	82-ZM1-266-11K		LVR,DIR	40	82-ZM3-616-019		RING MAGNET 4
6	82-ZM1-214-010		SPR-T,DIR	41	82-ZM1-216-31K		GEAR,REEL
7	82-ZM1-206-81K		CHAS,HEAD	42	87-A90-319-010		HEAD,PH HADKH2 FPC
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-A90-320-010		HEAD,RPH HADKH5 FPC
9	82-ZM1-269-219		SPR-T,BRG	43	82-ZM1-225-21K		GEAR,FR
10	82-ZM1-219-119		SPR-T,LINK	44	82-ZM1-226-019		GEAR,REW
11	82-ZM1-210-119		GEAR,H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-019		SPR-T,HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-619		GUIDE,TAPE	47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
14	86-ZM4-206-010		S-SCREW,AZIMUTH	47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
15	82-ZM1-314-119		PLATE,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
17	82-ZM1-218-019		SPR-E,HB	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR,IC
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	51	87-045-347-019		MOT,SHU2L 70(M1)
19	82-ZM1-222-21K		LVR,PLAY	52	82-ZM3-221-010		PULLEY,MOT 2M
20	82-ZM1-217-319		REEL TABLE	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C,BT	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
23	82-ZM1-257-019		SPR-T,CAS	56	82-ZM3-337-010		BELT,SBU MOT 2
24	82-ZM1-241-319		LVR,MC	57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
25	82-ZM1-242-019		LVR,CAS	58	86-ZM1-206-010		BELT,MAIN L
26	82-ZM1-243-019		LVR,STOP	59	82-ZM3-340-010		SH,BELT D2
27	82-ZM1-344-110		LVR ASSY,PINCH R2	A	85-ZM3-202-010		S-SCREW,TG
28	82-ZM1-259-110		SPR-T,PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR,REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-319		SPR-E,LVR DIR	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR,CAM M2	E	82-ZM3-334-010		PW,2.16-6-0.4
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				
35	82-ZM1-265-119		SPR-E,TRIG				

GE-NH1100/NAVH1200

ELECTRICAL MAIN PARTS LIST

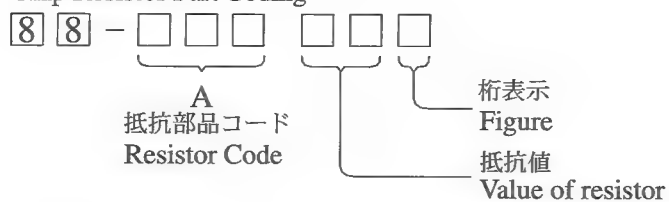
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				LED215	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
	8Z-SU1-603-010		IC,LC866448W-5L20	LED216	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
	87-A21-023-040		C-IC,BA3835F	S301	87-A90-095-080		SW,TACT EVQ11G04M
TRANSISTOR				S302	87-A90-095-080		SW,TACT EVQ11G04M
	87-026-263-080		C-TR,RN1410	S303	87-A90-095-080		SW,TACT EVQ11G04M
DIODE				S304	87-A90-095-080		SW,TACT EVQ11G04M
	87-070-136-080		ZENER,MTZJ5.1B	S305	87-A90-095-080		SW,TACT EVQ11G04M
	87-017-931-080		ZENER,MTZJ5.6B	S306	87-A90-095-080		SW,TACT EVQ11G04M
	87-020-465-080		DIODE,1SS133 (110MA)	S307	87-A90-095-080		SW,TACT EVQ11G04M
MAIN C.B				S308	87-A90-095-080		SW,TACT EVQ11G04M
C101	87-010-550-040		CAP,E 100-6.3 GAS	S309	87-A90-095-080		SW,TACT EVQ11G04M
C103	87-010-497-040		CAP,E 4.7-35 GAS	S310	87-A90-095-080		SW,TACT EVQ11G04M
C105	87-010-312-080		C-CAP,S 15P-50 CH	S311	87-A90-095-080		SW,TACT EVQ11G04M
C106	87-010-320-080		CHIP CAP 68P	S312	87-A90-095-080		SW,TACT EVQ11G04M
C107	87-010-316-080		C-CAP,S 33P-50 CH	S313	87-A90-095-080		SW,TACT EVQ11G04M<1200>
C108	87-010-196-080		CHIP CAPACITOR,0.1-25	S314	87-A90-095-080		SW,TACT EVQ11G04M
C109	87-010-196-080		CHIP CAPACITOR,0.1-25	S315	87-A90-095-080		SW,TACT EVQ11G04M
C110	87-012-368-080		C-CAP,S 0.1-50 F	S316	87-A91-076-010		SW,RTRY RE0121PVB25FINA1
C111	87-010-552-040		CAP,E 22-16 GAS	W101	8Z-SU1-608-010		CORD,52305-101BLK
C201	87-012-140-080		CAP 470P	WH101	87-A90-882-010		HLDR,WIRE 10P 1.5 51016
C202	87-012-369-080		C-CAP,S 0.047-50F	X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF.
C203	87-010-404-040		CAP,E 4.7-50 SME				
C204	87-010-405-040		CAP,E 10-50				
C205	87-010-405-040		CAP,E 10-50				
C206	87-010-405-040		CAP,E 10-50				
C301	87-010-196-080		CHIP CAPACITOR,0.1-25				
C302	87-010-196-080		CHIP CAPACITOR,0.1-25				
C303	87-010-197-080		CAP, CHIP 0.01 DM				
C304	87-010-182-080		C-CAP,S 2200P-50 B				
C401	87-010-196-080		CHIP CAPACITOR,0.1-25				
C402	87-010-196-080		CHIP CAPACITOR,0.1-25				
C403	87-010-993-080		CHIP CAPACITOR,0.056-25				
C404	87-010-993-080		CHIP CAPACITOR,0.056-25				
C405	87-012-358-080		C-CAP,S 0.47-10 F Z				
C406	87-010-196-080		CHIP CAPACITOR,0.1-25				
C407	87-012-158-080		C-CAP,S 390P-50 CH				
FL201	8Z-SU1-605-010		FL,BJ699GK				
L101	87-005-152-080		COIL,10UH				
L102	87-005-130-080		COIL,10UH				
L103	87-005-130-080		COIL,10UH				
L104	87-005-152-080		COIL,10UH				
L301	87-003-097-080		COIL,1UH				
LED201	87-A40-380-080		LED,SEL6510C-TP5 GRN				
LED202	87-A40-380-080		LED,SEL6510C-TP5 GRN				
LED203	87-A40-380-080		LED,SEL6510C-TP5 GRN				
LED204	87-A40-380-080		LED,SEL6510C-TP5 GRN				
LED205	87-A40-380-080		LED,SEL6510C-TP5 GRN				
LED206	87-A40-380-080		LED,SEL6510C-TP5 GRN				
LED207	87-A40-380-080		LED,SEL6510C-TP5 GRN				
LED208	87-A40-380-080		LED,SEL6510C-TP5 GRN				
LED209	87-A40-317-080		LED,SLR-342VCT31 RED<1200>				
LED210	87-A40-317-080		LED,SLR-342VCT31 RED<1200>				
LED211	87-A40-317-080		LED,SLR-342VCT31 RED<1200>				
LED212	87-A40-317-080		LED,SLR-342VCT31 RED<1200>				
LED213	87-A40-317-080		LED,SLR-342VCT31 RED<1200>				
LED214	87-A40-317-080		LED,SLR-342VCT31 RED<1200>				

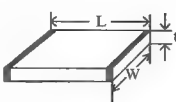
チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

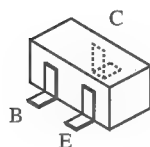
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

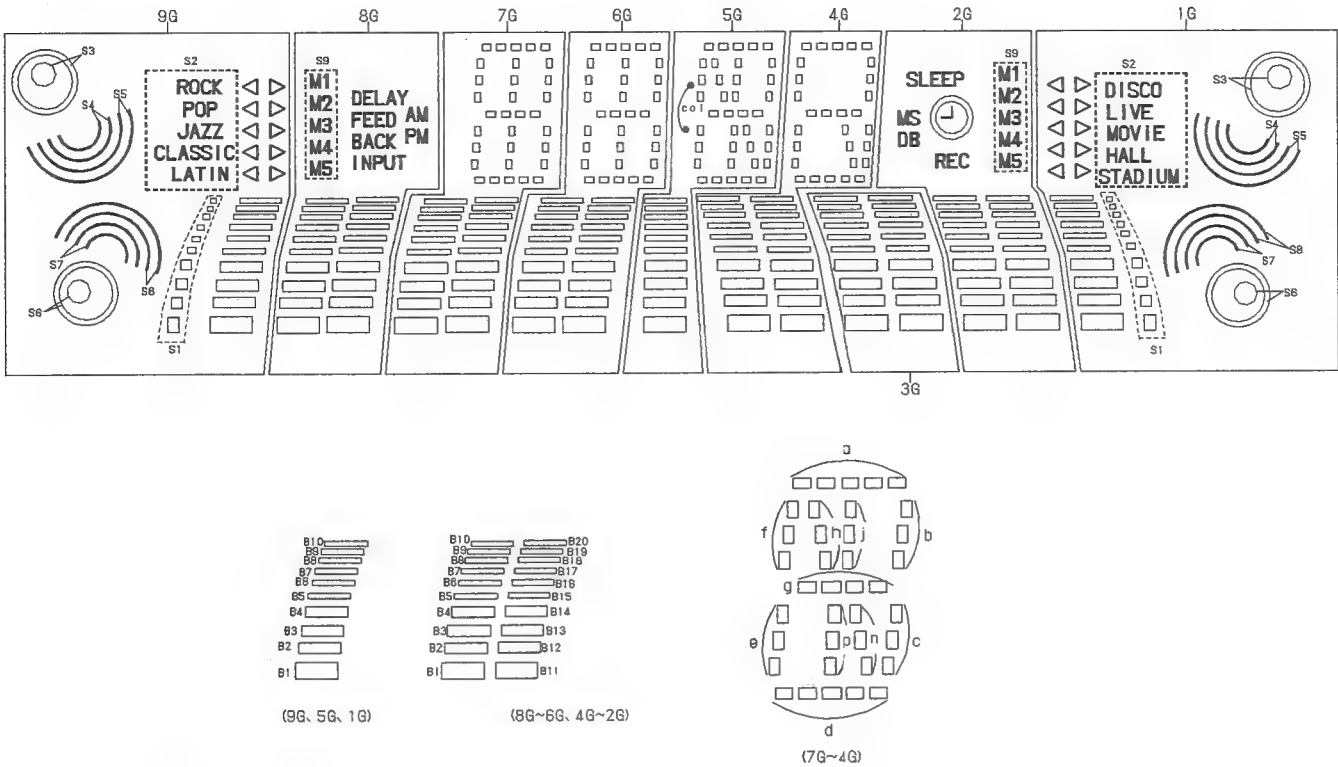
TRANSISTOR ILLUSTRATION (GE-NH1100 / NAVH1200)



RN1410

FL (BJ699GK) GRID ASSIGNMENT & ANODE CONNECTION
(GE-NH1100 / NAVH1200)

GRID ASSIGNMENT



ANODE CONNECTION

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	[M1]	—	a	a	a	a	—	—	[M1]
P2	[M2]	S9	b	b	b	b	—	S9	[M2]
P3	[M3]	DELAY	f	f	f	f	—	SLEEP	[M3]
P4	[M4]	FEED BACK	g	g	g	g	—	⌚	[M4]
P5	[M5]	INPUT	c	c	c	c	—	REC	[M5]
P6	[ROCK]	AM	e	e	e	e	—	MS	[DISCO]
P7	[POP]	PM	d	d	d	d	—	DB	[LIVE]
P8	S1	B11	B11	B11	h	B11	B11	B11	S1
P9	B1	B1	B1	B1	B1	B1	B1	B1	B1
P10	S6	B12	B12	n	B12	B12	B12	B12	S6
P11	B2	B2	B2	B2	B2	B2	B2	B2	B2
P12	S7	B13	B13	coil (L)	B13	B13	B13	B13	S7
P13	B3	B3	B3	B3	B3	B3	B3	B3	B3
P14	S8	B14	B14	coil (T)	B14	B14	B14	B14	S8
P15	B4	B4	B4	B4	B4	B4	B4	B4	B4
P16	S3	B15	B15	—	B15	B15	B15	B15	S3
P17	B5	B5	B5	B5	B5	B5	B5	B5	B5
P18	S4	B16	B16	—	B16	B16	B16	B16	S4
P19	B6	B6	B6	B6	B6	B6	B6	B6	B6
P20	S5	B17	B17	—	B17	B17	B17	B17	S5
P21	B7	B7	B7	B7	B7	B7	B7	B7	B7
P22	S2	B18	B18	—	B18	B18	B18	B18	S2
P23	B8	B8	B8	B8	B8	B8	B8	B8	B8
P24	[JAZZ]	B19	B19	—	B19	B19	B19	B19	[MOVIE]
P25	B9	B9	B9	B9	B9	B9	B9	B9	B9
P26	[CLASSIC]	B20	B20	—	B20	B20	B20	B20	[HALL]
P27	B10	B10	B10	B10	B10	B10	B10	B10	B10
P28	[LATIN]	—	j, p	j, p	j, p	n	—	—	[STADIUM]

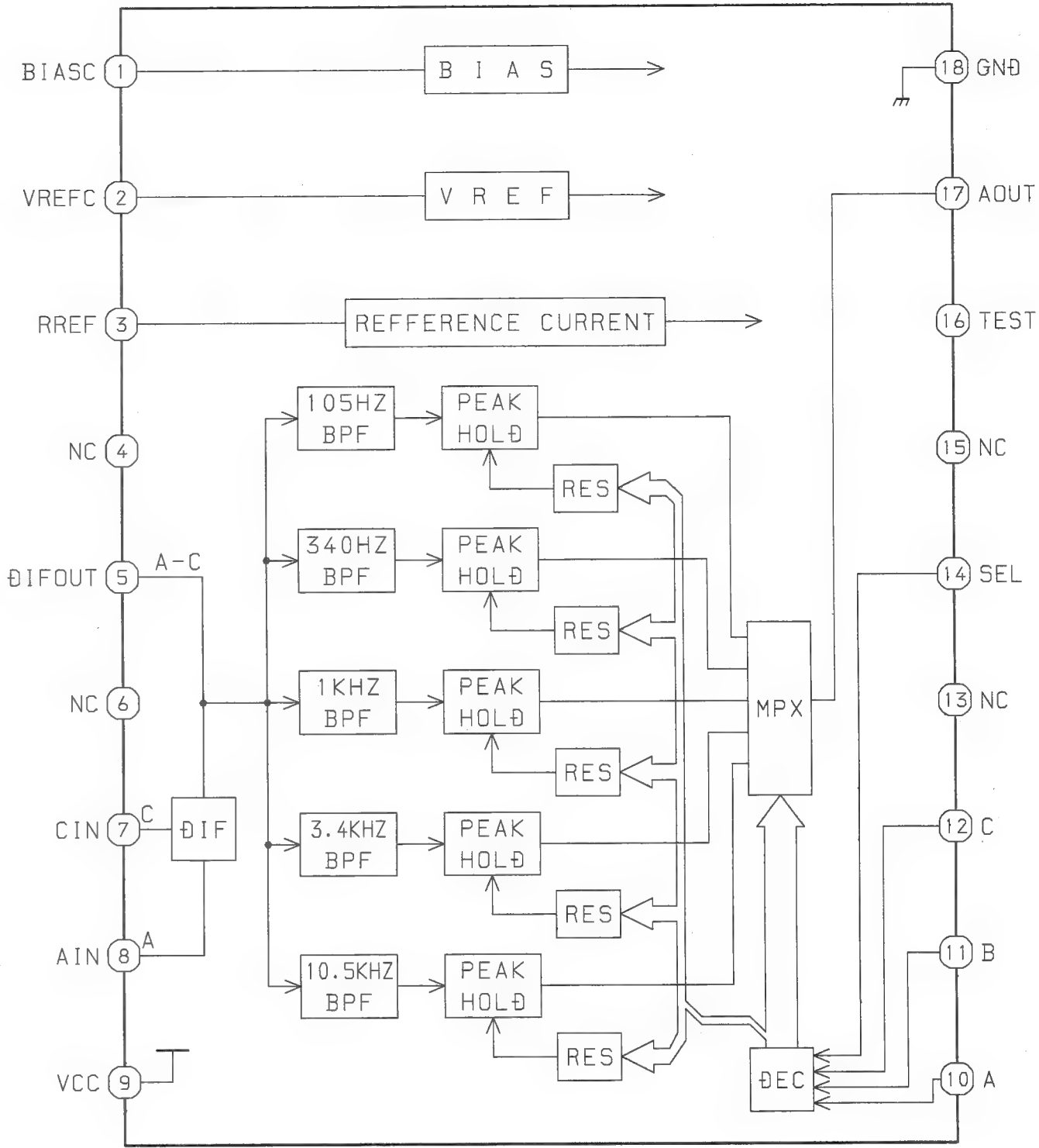
IC DESCRIPTION (GE-NH1100 / NAVH1200)

IC, LC866448W-5L20

Pin No.	Pin Name	I/O	Description
1	O-C.SHIFT	O	Micro computer clock shift output.
2	PRO LOGIC	O	PRO LOGIC LED output.
3	3-STEREO	O	3 STEREO LED output.
4	PHANTOM	O	PHANTOM LED output.
5	NORMAL	O	NORMAL LED output.
6	NC	-	Not used.
7	RESET	I	Reset input.
8	NC	-	Not used (Connected to GND).
9	NC	-	Not used (Connected to GND).
10	VSS1	-	GND.
11	CF1	-	Connected to crystal oscillator (5.76MHz).
12	CF2	-	
13	VDD1	-	Power supply.
14	I-HOLD	I	System power supply monitor AD input. "H":Normal operation. "L":to stop clock and main memory.
15	I-KEY1	I	KEY 1 AD input.
16	NC	-	Not used (Connected to GND).
17	I-SPEANA	I	Spectrum analyzer level AD input.
18	NC	I	Not used (Connected to GND).
19	I-JOG	I	Jog rotary encoder input.
20~23	NC	-	Not used (Connected to GND).
24	PROLOGIC	I	Input prologic switch "H" when prologic, "L" when not prologic.
25~33	G1~G9	O	FL gird output.
34~40	S1~S7	O	FL Segment output.
41	VDD2	-	Connected to GND.
42	VP	-	Power FL display negative supply terminal.
43~63	S8~S28	O	FL Segment output.
64	NC	-	Not used.
65	LED ON	O	MULTI JOG LED output.
66	LED ON	O	MULTI JOG LED output.
67~69,72	NC	O	Not connected.
70	O-L FREQ ON	O	Speana low frequency output.
71	O-H FREQ ON	O	Speana high frequency output.
73	VSS2	-	GND.
74	SPEANA C	O	Spectrum analyzer band switch output C.
75	SPEANA B	O	Spectrum analyzer band switch output B.
76	SPEANA A	O	Spectrum analyzer band switch output A.
77	SEL	O	Spectrum analyzer band switch output .
78~79	NC	O	Not connected.
80	I/O-SERIAL	I/O	Input/output serial data for communication.

IC BLOCK DIAGRAM (GE-NH1100 / NAVH1200)

IC, BA3835F

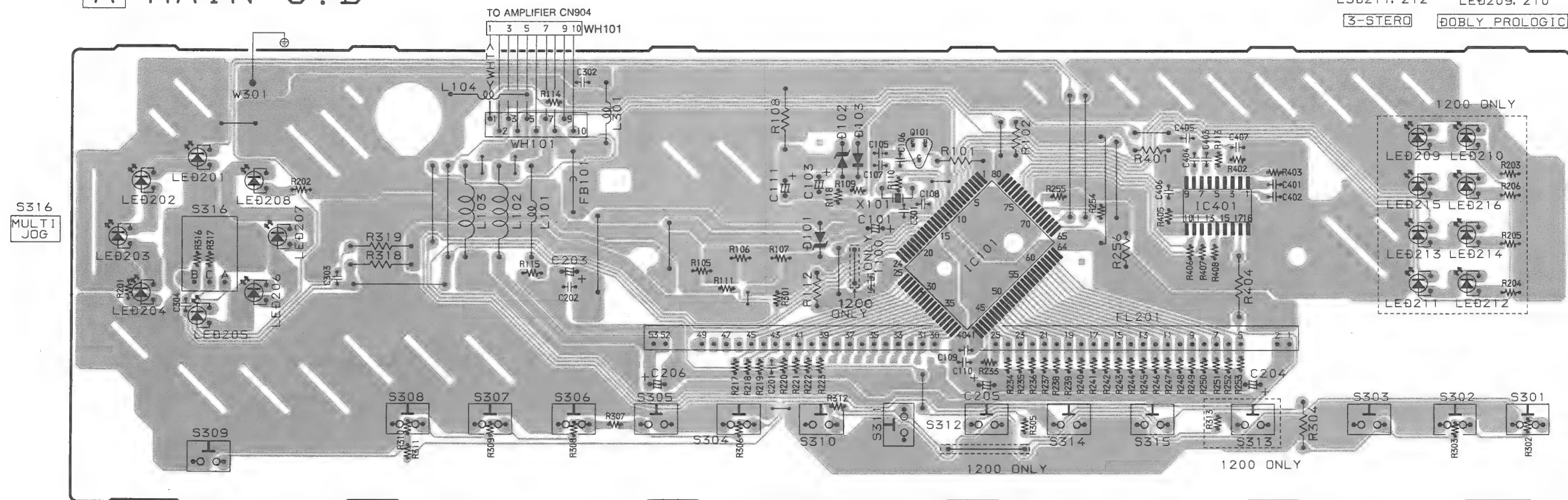


1 2 3 4 5 6 7 8 9 10 11 12 13 14

A
B
C
D
E
F
G
H
I
J

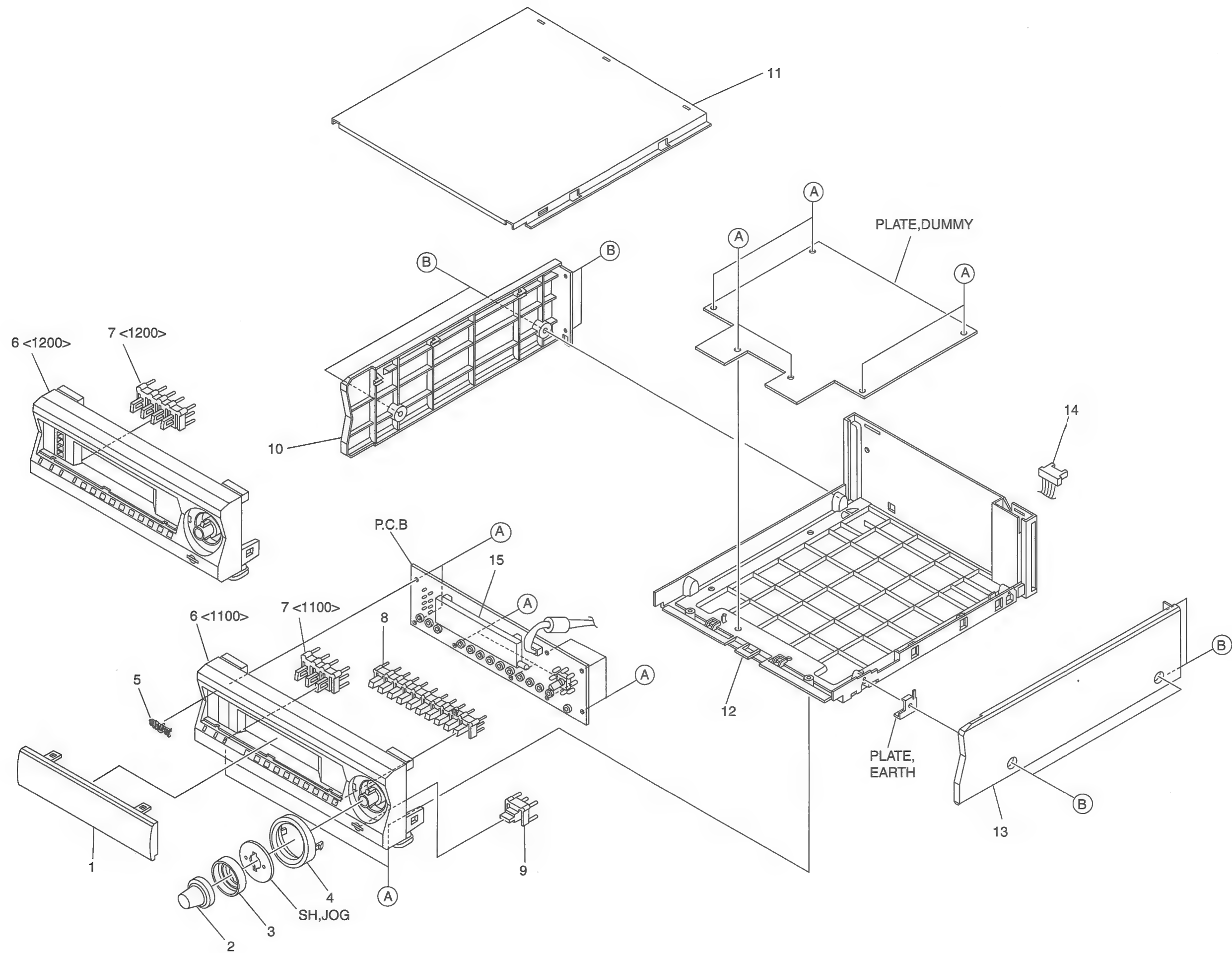
A MAIN C.B

LED215, 216 LED213, 214
 [NORMAL] [PHANTOM]
 LED211, 212 LED209, 210
 [3-STERO] [DOLBY PRO LOGIC]



S309 ENTER LED201, LED208 S308 ECO S307 SURROUND S306 GEQ S305 UP S304 DOWN S310 RHYTHM S311 BEAT ON/OFF S312 AUTO SPICE / FILL IN S314 SPICE B FL201 FL DISPLAY S315 SPICE A S313 DOLBY PRO LOGIC S303 CLOCK S302 TIMER S301 DEMO





MECHANICAL PARTS LIST 1 / 1 (GE-NH1100 / NAVH1200)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SU1-004-010		WINDOW,DISPLAY
2	8Z-SU1-007-010		KNOB,RTRY JOG
3	8Z-SU1-005-010		REFLECTOR, JOG
4	8Z-SU1-006-010		RING, JOG
5	87-B00-002-010		BADGE,AIWA 30 ABS SIL
6	8Z-SU1-001-010		CABI,FR<1100>
6	8Z-SUM-001-010		CABI,FR PRO<1200>
7	8Z-SU1-009-010		KEY,DEMO<1100>
7	8Z-SUM-004-010		KEY,PRO<1200>
8	8Z-SU1-008-010		KEY,GEQ
9	8Z-SU1-010-010		KEY,ENTER
10	8Z-SX1-011-010		PANEL,SIDE L
11	8Z-SU1-002-010		CABI,STEEL
12	8Z-SU1-003-010		CABI,REAR YJSNM<1100YJ>
12	8Z-SU1-021-010		CABI,REAR YSNM<1100Y>
12	8Z-SUM-003-010		CABI,REAR YJSNM<1200YSM>
12	8Z-SUM-011-110		CABI,REAR YSNM<1200YSM>
13	8Z-SX1-012-010		PANEL,SIDE R
14	8Z-SU1-608-010		CORD,52305-101BLK
15	88-SU1-201-110		GUIDE,FL
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-633-010		TAPPING SCREW, BVT2+3-8

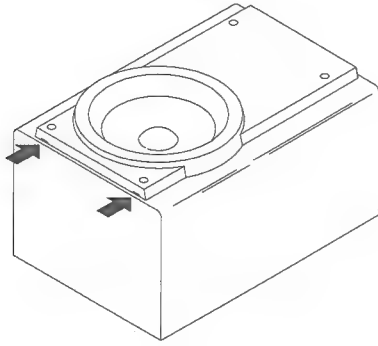
COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

SPEAKER DISASSEMBLY INSTRUCTIONS

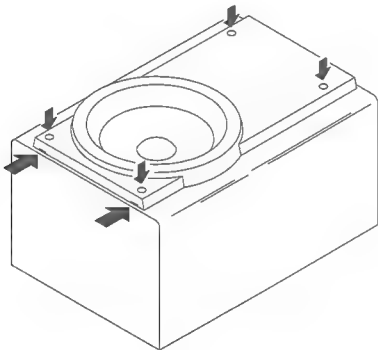
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



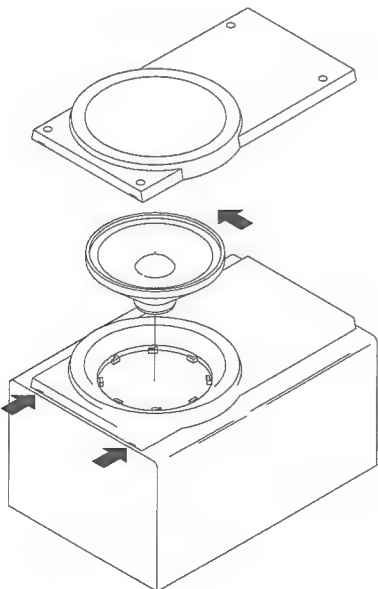
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

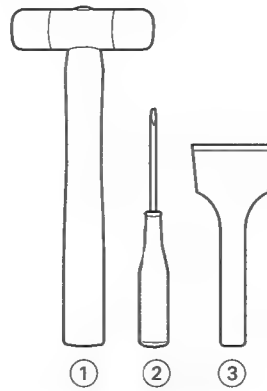


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

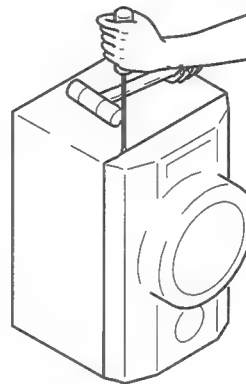


Fig-1

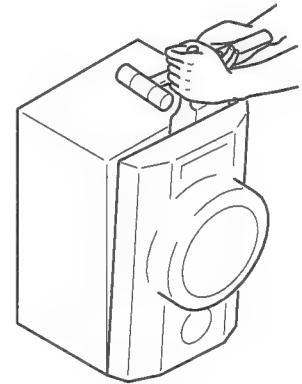


Fig-2

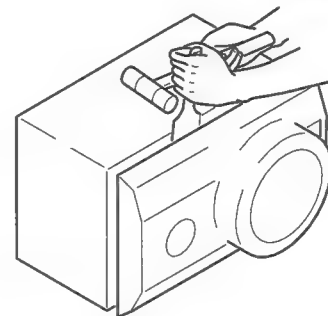


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST

SX-NAVH1200 (YBL, YTL, YJBL)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS5-610-010		CORD, SPKR
2	8Z-SSM-006-010		PANEL, FR L
3	8Z-SSM-001-010		PANEL, FR R
4	8Z-SSM-003-010		PANEL, TW
5	8Z-SSM-007-010		GRILLE, FRAME ASSY
6	8Z-SSM-004-010		SPACER
7	8Z-SSM-009-010		PROTECTOR, TW
8	8Z-SSM-602-010		SPKR, W 150
9	8Z-NSY-608-010		SPKR, CERAMIC ASSY
10	83-MS2-603-210		SPKR, T 60
11	8Z-SSM-013-010		CABI, T<YTL>

SX-CR677 (YSTC, YJSTC)

NOTE: This SX-CR677 speaker contains SX-C607 (center speaker) and SX-R277 (rear speaker).

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-YS1-001-010		CABI, REAR<277>
2	8Z-YS1-002-010		GRILLE FRAME ASSY<277>
3	81-VSA-009-010		CORD BUSH<277>
4	87-010-384-010		CAP, E 100-25 SME<277>
5	87-YS6-002-010		SPKR, CORD Y<277>
6	8Z-YS1-601-010		SPKR, 100<277>
7	87-YS7-012-010		PANEL, FR S<607>
8	87-YS7-013-010		PANEL, REAR S<607>
9	87-YS3-003-010		GRILLE, FRAME ASSY<607>
10	83-NSM-010-010		SPKR, CORD<607>
11	81-VSA-009-010		CORD BUSH<607>
12	87-YS7-602-010		SPKR, 100<607>
13	8Z-YS2-911-010		IB, YJ(ECA)Y

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SP1-906-010		IB, EZ (9L)M<1100EZ>
1	8Z-SPM-906-010		IB, EZ (9L)M<1200EZ>
1	8Z-SP1-905-010		IB, K(E)M<1100K>
1	8Z-SPM-905-010		IB, K(E)M<1200K>
1	8Z-SP1-901-010		IB, H(ECA)M<1100HR>
1	8Z-SPM-901-010		IB, H(ECA)M<1200HR>
2	8Z-NF5-702-010		RC UNIT, ZAS04<1100>
2	8Z-NFV-702-010		RC UNIT, ZAS05<1200>
3	87-006-225-010		AM LOOP ANT NC2<EZ, K>
3	87-043-095-010		WIRE ANTENNA<1100HR>
3	87-006-269-010		AM LOOP ANT UN<1200HR>
4	87-043-106-010		WIRE, FM ANT (Z)<EZ, K>
4	87-043-115-010		ANT, FEEDER FM<HR>
△ 6	87-A91-017-010		PLUG, CONVERSION JT-0476<HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

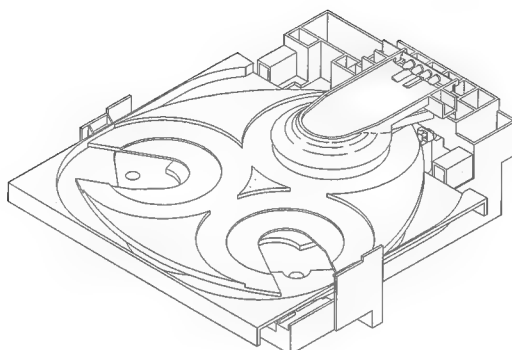
DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

アイワ株式会社
AIWA CO.,LTD.

9820543, 9820572, 9630472, 931261

Tokyo Japan



SERVICE MANUAL

CD MECHANISM

BASIC CD MECHANISM :

KSM-2131FAM
3ZG-2 E1
3ZG-2 E3
3ZG-2 E4

TYPE	BASIC CD MECHANISM
Z3NDSH	3ZG-2 E1
Z3RDLSHJ	3ZG-2 E3
Z3RNDSHJ	3ZG-2 E1
Z3RNDSH	3ZG-2 E1
Z3RNSMDJ	3ZG-2 E1
Z3RSHMDJ	3ZG-2 E3
PZ3MD	3ZG-2 E4
Z4RNDSH	KSM-2131 FAM
Z4RNSHMDJ	KSM-2131 FAM

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

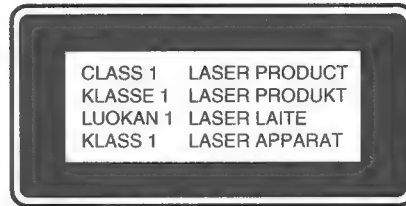
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

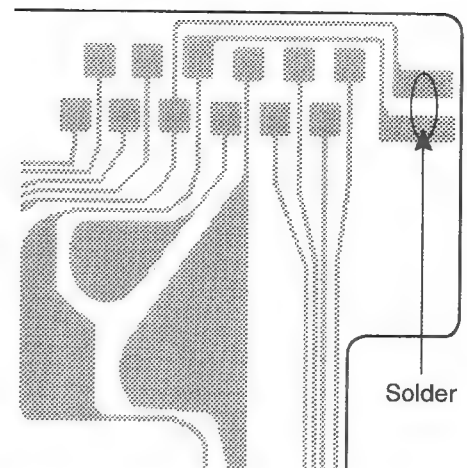


Precaution to replace Optical block (KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

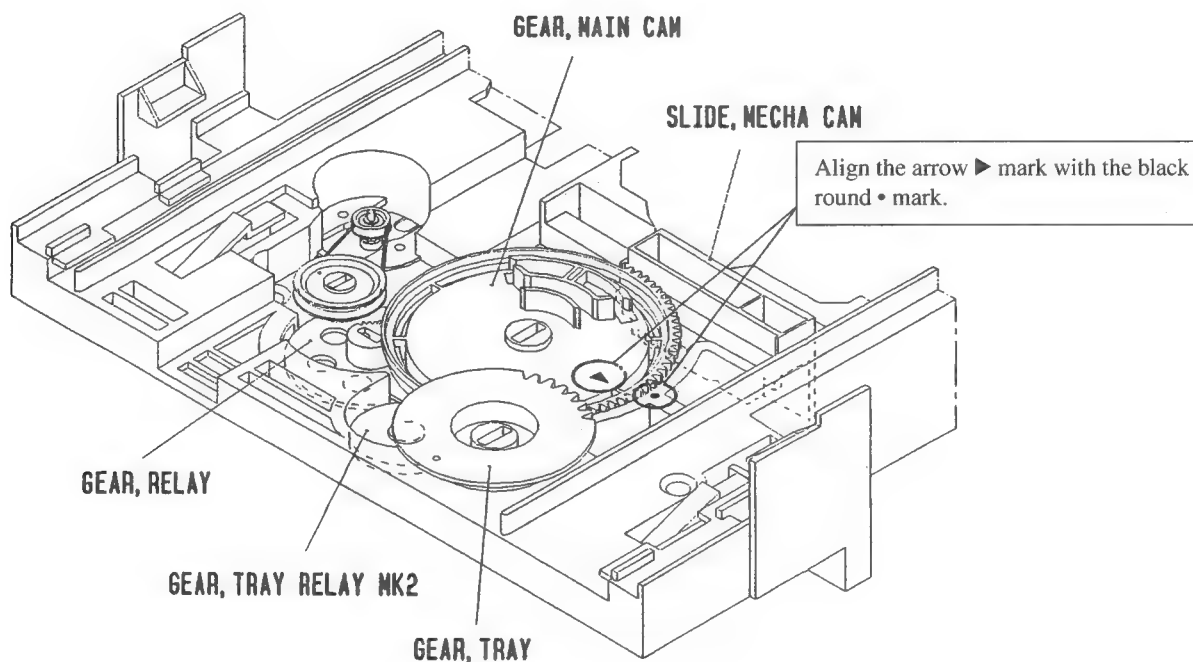
PICK-UP Assy P.C.B



How to Adjust the Rotating Phase of the Gear, Main Cam

- 1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
- 2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
- 3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C102	87-016-081-080		C-CAP,S 0.1-16 RK
	87-A20-446-010		C-IC, LA9241ML	C103	87-010-321-020		C-CAP,S 82P-50 CH
	87-A20-459-010		C-IC, LC78622ED	C104	87-012-154-020		C-CAP,S 150P-50 J CH GRM
	87-A20-445-010		IC, BA5936	C105	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
			<Z4RNSH, Z4RNSHMDJ, Z3RNSMDJ, PZ3MD>	C109	87-010-197-020		C-CAP,S 0.01-25 B
	88-NF9-621-010		IC, BA5936S	C111	87-010-312-020		C-CAP,S 15P-50 J CH
			<Z3NDSH, Z3RDLSHJ, Z3RNSHJ, Z3RNSHM>	C112	87-010-154-020		C-CAP,S 10P-50 CH
TRANSISTOR				C113	87-010-322-020		C-CAP,S 100P-50 CH
	89-113-187-080		TR, 2SA1318TU<Z3RNSMDJ, PZ3MD>	C115	87-010-404-080		CAP, ELECT 4.7-50V
	87-026-609-080		TR, KTA1266GR	C116	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
			<EXCEPT Z3RNSMDJ, PZ3MD>	C117	87-010-263-040		CAP, E 100-10
	87-026-295-080		TR, DTC144TK	C118	87-010-178-020		C-CAP,S 1000P-50 B
	87-A30-076-080		C-TR, 2SC3052F	C119	87-010-154-020		C-CAP,S 10P-50 CH
	89-406-554-580		TR, 2SD655DE<EXCEPT Z4RNSHMDJ>	C121	87-010-403-080		CAP, ELECT 3.3-50V
				C122	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-047-080		TR, CSD655E<Z4RNSHMDJ>	C123	87-012-157-020		C-CAP,S 330P-50 CH
	87-A30-073-080		C-TR, RT1N 141C<Z3RDLSHJ, PZ3MD>	C124	87-012-157-020		C-CAP,S 330P-50 CH
	87-A30-075-080		C-TR, 2SA1235F	C131	87-010-382-080		CAP, ELECT 22-25V
DIODE				C191	87-010-263-040		CAP, E 100-10
				C301	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
	87-A40-527-080		DIODE, 1SS133 T-91S	C302	87-010-382-080		CAP, ELECT 22-25V
	87-020-465-080		DIODE, 1SS133 (110MA)	C303	87-010-260-040		CAP, E 47-25 SME
			<EXCEPT PZ3MD>	C501	87-A10-730-080		CAP, E 1000-16 SMG
	87-A40-470-080		DIODE, 1SS254<PZ3MD>	C502	87-010-197-020		C-CAP,S 0.01-25 B
				C504	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
3CD C.B				C505	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
				C506	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
C11	87-012-393-080		C-CAP,S 0.22-16 R K	C507	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
C12	87-012-157-020		C-CAP,S 330P-50 CH	C509	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
C13	87-016-369-080		C-CAP,S 0.033-25 B K	C510	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
C14	87-A10-201-080		C-CAP,S 0.33-16 KB	C603	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
C15	87-010-213-020		C-CAP,S 0.015-25 B	C610	87-010-405-080		CAP, ELECT 10-50V
				C611	87-010-405-080		CAP, ELECT 10-50V
C16	87-016-083-080		C-CAP,S 0.15-16 RK	C701	87-010-405-040		CAP, E 10-50
C17	87-010-184-020		C-CAP,S 3300P-50 B	C705	87-010-197-020		C-CAP,S 0.01-25 B
C18	87-016-083-080		C-CAP,S 0.15-16 RK	C706	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
C19	87-010-198-020		C-CAP,S 0.022-25 B<EXCEPT PZ3MD>	C707	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
C19	87-016-369-080		C-CAP,S 0.033-25 B K<PZ3MD>	C711	87-010-322-020		C-CAP,S 100P-50 CH
				C712	87-010-322-020		C-CAP,S 100P-50 CH
				C713	87-010-322-020		C-CAP,S 100P-50 CH
C20	87-010-178-020		C-CAP,S 1000P-50 B	C901	87-010-260-080		CAP, ELECT 47-25V
C21	87-012-393-080		C-CAP,S 0.22-16 R K	C902	87-010-196-020		C-CAP,S 0.1-25 Z F GRM
C22	87-016-083-080		C-CAP,S 0.15-16 RK	CON3	84-ZG1-648-010		CONN ASSY, 6P<Z4RNSH, Z4RNSHMDJ>
C23	87-010-197-020		C-CAP,S 0.01-25 B	CON3	87-099-199-010		CONN, 6P 6216 H
C24	87-010-186-020		C-CAP,S 4700P-50 B				<EXCEPT Z4RNSH, Z4RNSHMDJ>
C25	87-010-400-040		CAP, E 0.47-50	CON4	87-099-212-010		CONN, 5P 6216 V
C26	87-010-322-020		C-CAP,S 100P-50 CH				
C27	87-010-382-040		CAP, E 22-25 SME	CON5	87-099-199-010		CONN, 6P 6216 H
C28	87-010-545-040		CAP, E 0.22-50 SME	CON6	87-099-030-010		CONN, 13P 6216H
C29	87-010-184-020		C-CAP,S 3300P-50 B	CON8	87-A60-248-010		CONN, 16P H CFF1416
C31	87-010-186-020		C-CAP,S 4700P-50 B				<Z4RNSH, Z4RNSHMDJ>
C32	87-010-315-020		C-CAP,S 27P-50 CH<EXCEPT PZ3MD>	CON8	87-A60-429-010		CONN, 16P H TOC-A
C32	87-010-312-080		C-CAP,S 15P-50 CH<PZ3MD>				<EXCEPT Z4RNSH, Z4RNSHMDJ>
C33	87-016-081-080		C-CAP,S 0.1-16 RK	CON9	87-009-345-010		CONN, 2P PH H
C35	87-010-196-020		C-CAP,S 0.1-25 Z F GRM				<Z4RNSHMDJ, Z3RNSMDJ, PZ3MD>
C37	87-010-405-080		CAP, ELECT 10-50V	FC1	85-NFT-611-110		FF-CABLE 16P-1.0
C38	87-010-263-080		CAP, ELECT 100-10V	FC4	84-ZG1-672-010		F-CABLE, 5P 1.25 210MM WHITE N
C39	87-010-596-020		C-CAP,S 0.047-16 RK	FC5	84-ZG1-630-010		CABLE PFC 6P-1.25
C40	87-010-401-080		CAP, ELECT 1-50V				<EXCEPT Z4RNSH, Z4RNSHMDJ>
C41	87-010-805-080		CAP, S 1-16	L11	87-005-602-080		COIL, 10UH LAV35 J
				L101	87-005-614-080		COIL 100UH LAV35 J
C42	87-010-263-080		CAP, ELECT 100-10V				
C43	87-010-197-020		C-CAP,S 0.01-25 B	L102	87-005-602-080		COIL, 10UH LAV35 J
C44	87-010-263-080		CAP, ELECT 100-10V	L902	87-A50-189-080		C-COIL, S BLM21B272S
C46	87-010-196-020		C-CAP,S 0.1-25 Z F GRM				<Z4RNSHMDJ, Z3RNSMDJ, PZ3MD>
C47	87-010-260-080		CAP, ELECT 47-25V	LED901	87-A40-558-010		LED, SLZ-8128A-01-A<EXCEPT PZ3MD>
C48	87-010-196-020		C-CAP,S 0.1-25 Z F GRM	LED901	87-A40-123-010		LED, SLZ-8128A-01-B<PZ3MD>
C49	87-010-404-080		CAP, ELECT 4.7-50V	M601	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
C50	87-010-197-020		C-CAP,S 0.01-25 B				
C51	87-010-263-040		CAP, E 100-10	R50	88-118-124-020		C-RES, S 120K-1/10W J
C52	87-012-156-080		C-CAP,S 220P-50 CH				<EXCEPT PZ3MD>
				R51	88-118-124-020		C-RES, S 120K-1/10W J
							<EXCEPT PZ3MD>
C101	87-016-369-020		C-CAP,S 0.033-25 B K				

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
R52	88-118-124-020	C-RES,S 120K-1/10W J	<EXCEPT PZ3MD>
R53	88-118-124-020	C-RES,S 120K-1/10W J	<EXCEPT PZ3MD>
SFR101	87-A90-787-080	SFR,100K H HOKU	
SW701	87-036-109-010	PUSH SWITCH	
SW702	87-036-109-010	PUSH SWITCH	
X101	87-A70-046-010	VIB,XTAL 16.934MHZ	

LED C.B<Z3RDLSHJ, PZ3MD>

LED701	87-A40-316-080	LED,SLR-56PCT31 GRN<PZ3MD>	
LED702	87-A40-316-080	LED,SLR-56PCT31 GRN<Z3RDLSHJ>	
LED702	87-A40-268-080	LED,SLH-56DCT31 ORN<PZ3MD>	
LED703	87-A40-268-080	LED,SLH-56DCT31 ORN	<Z3RDLSHJ, PZ3MD>
LED704	87-A40-316-080	LED,SLR-56PCT31 GRN<PZ3MD>	

T-T C.B

C401	87-A11-148-080	CAP,TC U 0.1-50 Z F	
CON401	86-NFZ-675-010	CONN,5P H 6216-11H	
M401	87-045-364-010	MOTOR (BCH3B14)	
PS401	87-026-573-010	IC,GP1853V	<Z4RNDSH, Z4RNSHMDJ, Z3RNSMDJ, PZ3MD>
PS401	88-NF9-627-010	SNSR, SG-240	<Z3RNDSH, Z3RDLSHJ, Z3RNDSHJ, Z3RNSHMDJ>

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
			DRIVE C.B<EXCEPT Z4RNDSH, Z4RNSHMDJ>
M1	87-045-358-010	MOT, RF-310TA 43	<EXCEPT Z4RNDSH, Z4RNSHMDJ>
M2	87-045-356-010	MOT, RF-310TA 30	<EXCEPT Z4RNDSH, Z4RNSHMDJ>
SW1	87-A90-042-010	SW,MSW-17310MVPO	<EXCEPT Z4RNDSH, Z4RNSHMDJ>

MOTOR C.B<Z4RNDSH, Z4RNSHMDJ>

M2	9X-262-513-210	SLED MOTOR<Z4RNDSH, Z4RNSHMDJ>	
PIN3	91-564-722-110	CONNECTOR 6P<Z4RNDSH, Z4RNSHMDJ>	
SW1	91-572-085-110	LEAF SW<Z4RNDSH, Z4RNSHMDJ>	

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

チップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



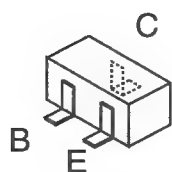
A
抵抗部品コード
Resistor Code

桁表示
Figure
抵抗値
Value of resistor

チップ抵抗 Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形/Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



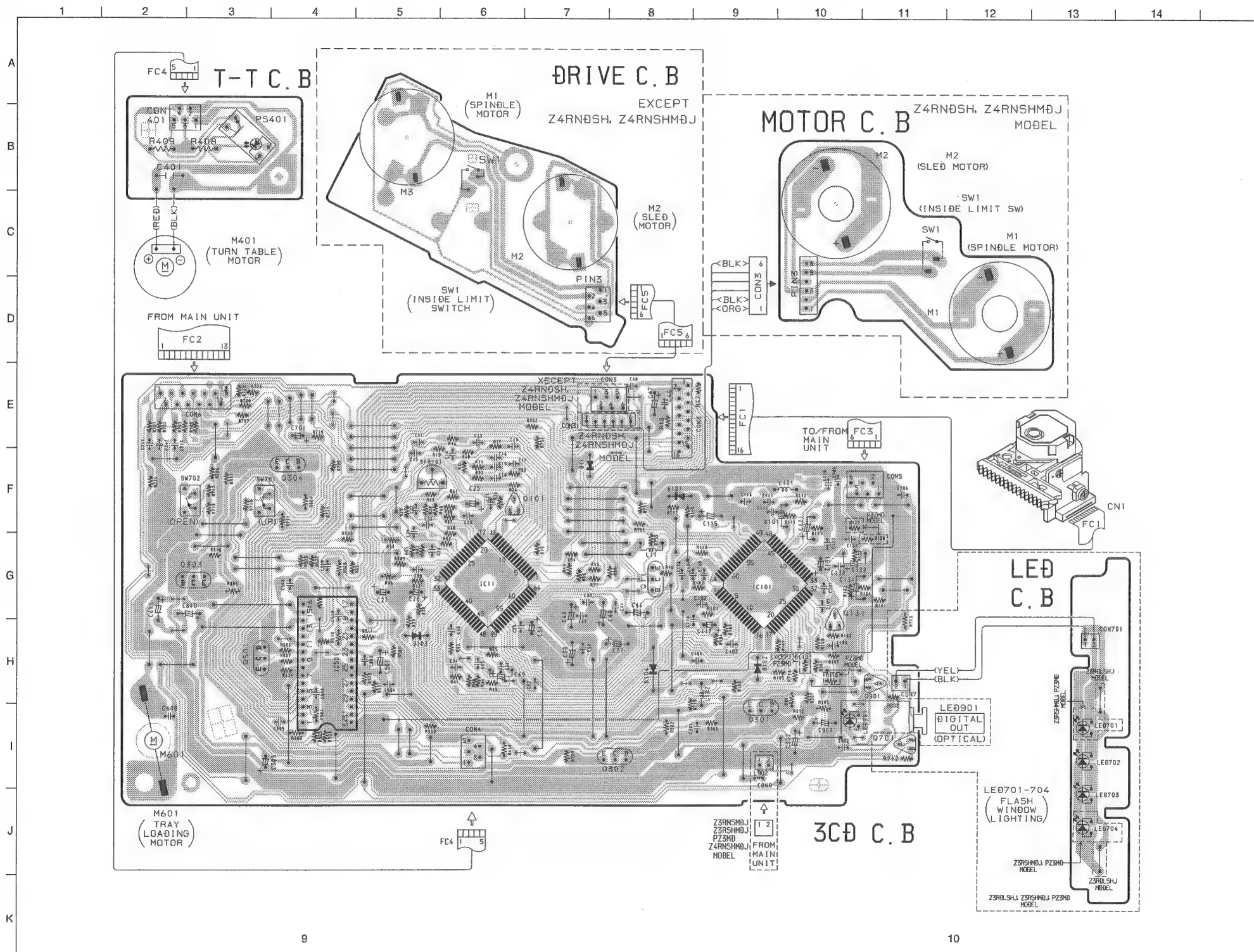
2SA1235
2SC3052
DTC144TK



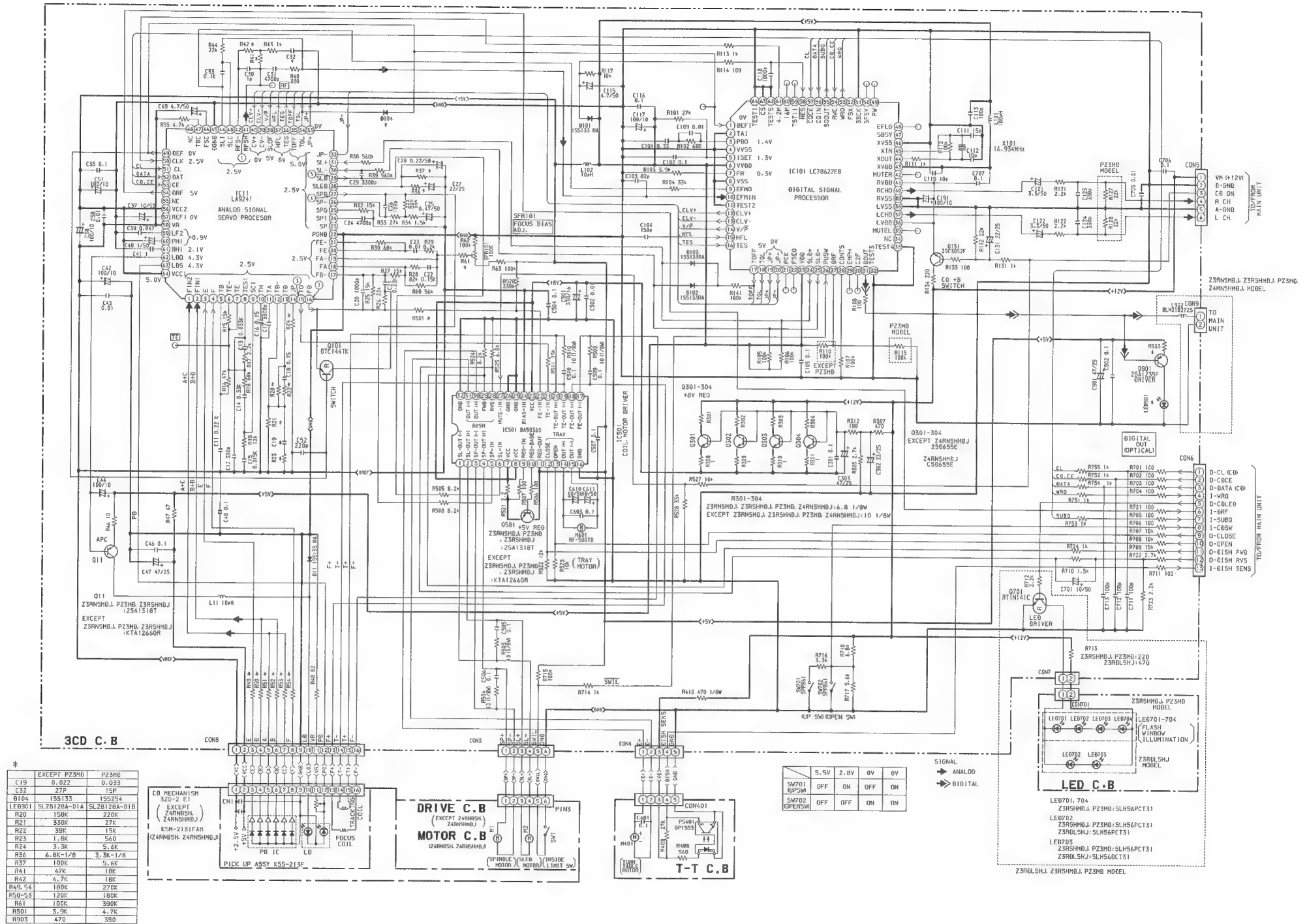
2SD655
KTA1266

MECHANISM ASSY
3ZG-2 E1 (EXCEPT Z4RND5H, Z4RNSH MDJ)
KSM-2131FAM (Z4RND5H, Z4RNSH MDJ)

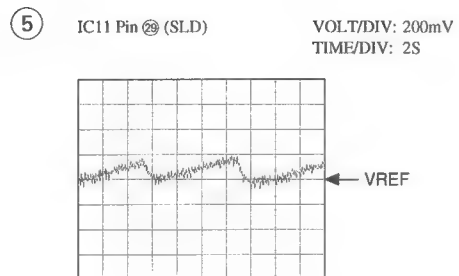
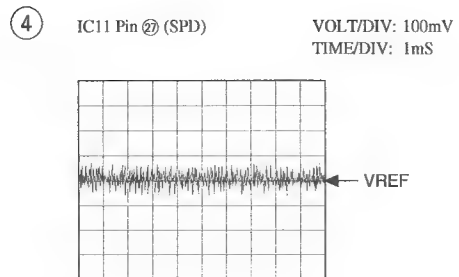
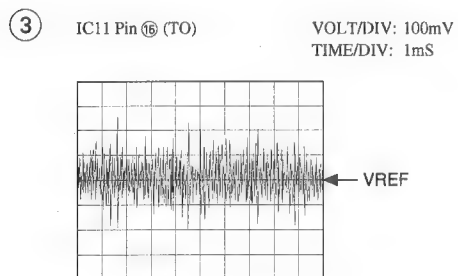
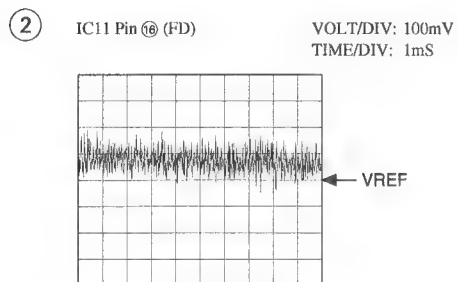
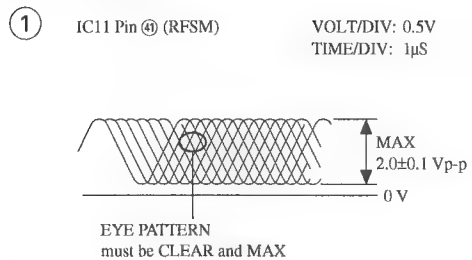




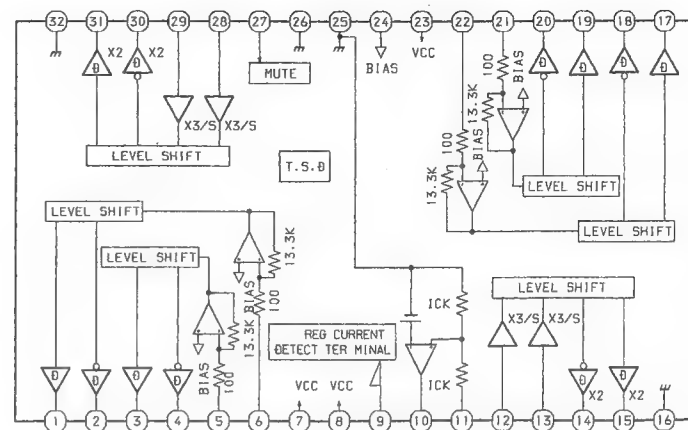
SCHEMATIC DIAGRAM



WAVE FORM



IC BLOCK DIAGRAM IC, BA5936



IC DESCRIPTION
IC, LA9241M

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES "Track Error Sense" comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD-	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD-	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD- and FA- pins.
19	FA-	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND	—	Analog signal GND.
23	NC	—	No connection.
24	SP	O	Single ended output of the CV+ and CV- pin input signal.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP-	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	“High Frequency Level” is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
41	RFSM	O	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	“Slice Level Control” is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	“Tracking Balance Control” EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	“Detect RF” RF level detector output.
55	FSS	I	“Focus Search Select” focus search mode (\pm search/+ search) select pin.
56	VCC2	—	Servo system and digital system Vcc pin.
57	REFI	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

IC, LC78622ED

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISSET	I		Pin to which external resistor adjusting the PDO output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—	Digital system GND. Be sure to connect to 0V.	
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	TEST2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLV-	O	Disc motor control output. Three level output is possible using command.	
14	V/P	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP-	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and the sync signal which is internally generated agree.	
23	VDD	—	Digital system power supply pin.	
24-28	SL+ - PUIN	I/O	General purpose input/output pin 1 to 5.	The pin is controlled by the serial data command from microprocessor. When the pin is not used, set the pin to the input terminal and connect to 0V, or alternately set the pin to output terminal and leave the pin open.
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	TEST3, TEST4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.

Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin.
48	EFLG	O	C1, C2, single and dual correction monitoring pin.
49	PW	O	Subcode P, Q, R, S, T, U and W output pin.
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby.
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in use.)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator.
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input read clock or subcode read input clock from SQOUT pin
58	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	TST11	O	Test signal output pin. Use this pin as open (normally L output).
60	16M	O	16.9344 MHz output pin.
61	4.2M	O	4.2336 MHz output pin.
62	TEST5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	$\overline{\text{CS}}$	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	TEST1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

Note: The same potential must be applied to the respective power supply terminals. (VDD, VVDD, LVDD, RVDD, XVDD)

TEST MODE

1. How to Activate CD Test Mode

Insert the AC plug while pressing the function CD button.
All FL display tubes will light up, and the test mode will be activated.




2. How to Cancel CD Test Mode

Either one of the following operations will cancel the CD test mode.

- Press the function button.
- Press the power switch button.
- (except CD function button)
- Disconnect the AC plug

3. CD Test Mode Functions

When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	All lamps light	<ul style="list-style-type: none"> • Test mode is activated. • CD block power is ON. 	<ul style="list-style-type: none"> • FL display check (All displays light.)
Search mode No.2	■ key		<ul style="list-style-type: none"> • Laser diode turns always ON. • Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. <p style="text-align: right;">* NOTE 1</p>	<ul style="list-style-type: none"> • APC circuit check • Laser current measurement (Laser current control. Across a resistor connected between emitter and GND.) <p>FOCUS SERVO</p> <ul style="list-style-type: none"> • Check focus search waveform • Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀▶ key		<ul style="list-style-type: none"> • Normal playback • Focus search is continued if TOC cannot be read. <p style="text-align: right;">* NOTE 1</p>	<p>FOCUS SERVO/TRACKING SERVO</p> <p>CLV SERVO/SLED SERVO</p> <p>Check DRF</p>
Traverse mode No.4	key		<ul style="list-style-type: none"> • During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON <p style="text-align: right;">* NOTE 2</p>	<p>TRACKING SERVO ON/OFF</p> <p>Tracking balance (traverse) check</p>
Sled mode No.5	⏮ key ⏭ key	All lamps light	<ul style="list-style-type: none"> • Pickup moves to the outermost track • Pickup moves to the innermost track <p style="text-align: right;">* NOTE 3</p> <p>(During playback, machine operates normally.)</p>	<p>SLED SERVO</p> <p>Check SLED mechanism operation</p>

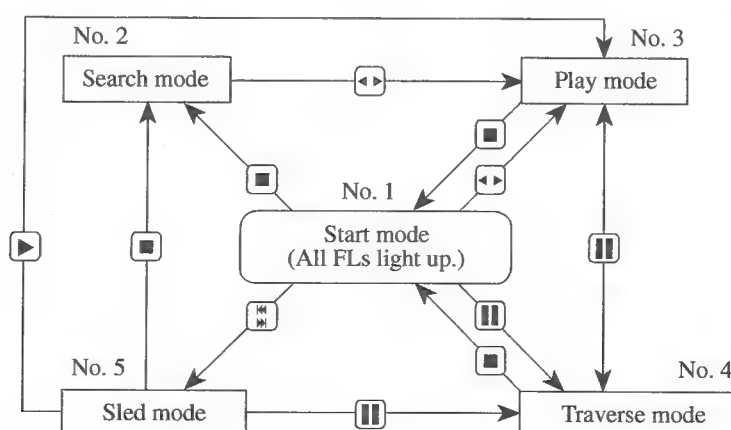
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.

* NOTE 2: Do not press the ⏮ or ⏭ keys when the machine is in the || status is active. If they are pressed, playback will not be possible after the || status has been canceled. If the ⏮ or ⏭ keys are pressed in the || status, press the ■ key and return to the start mode (No.1).

* NOTE 3: When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

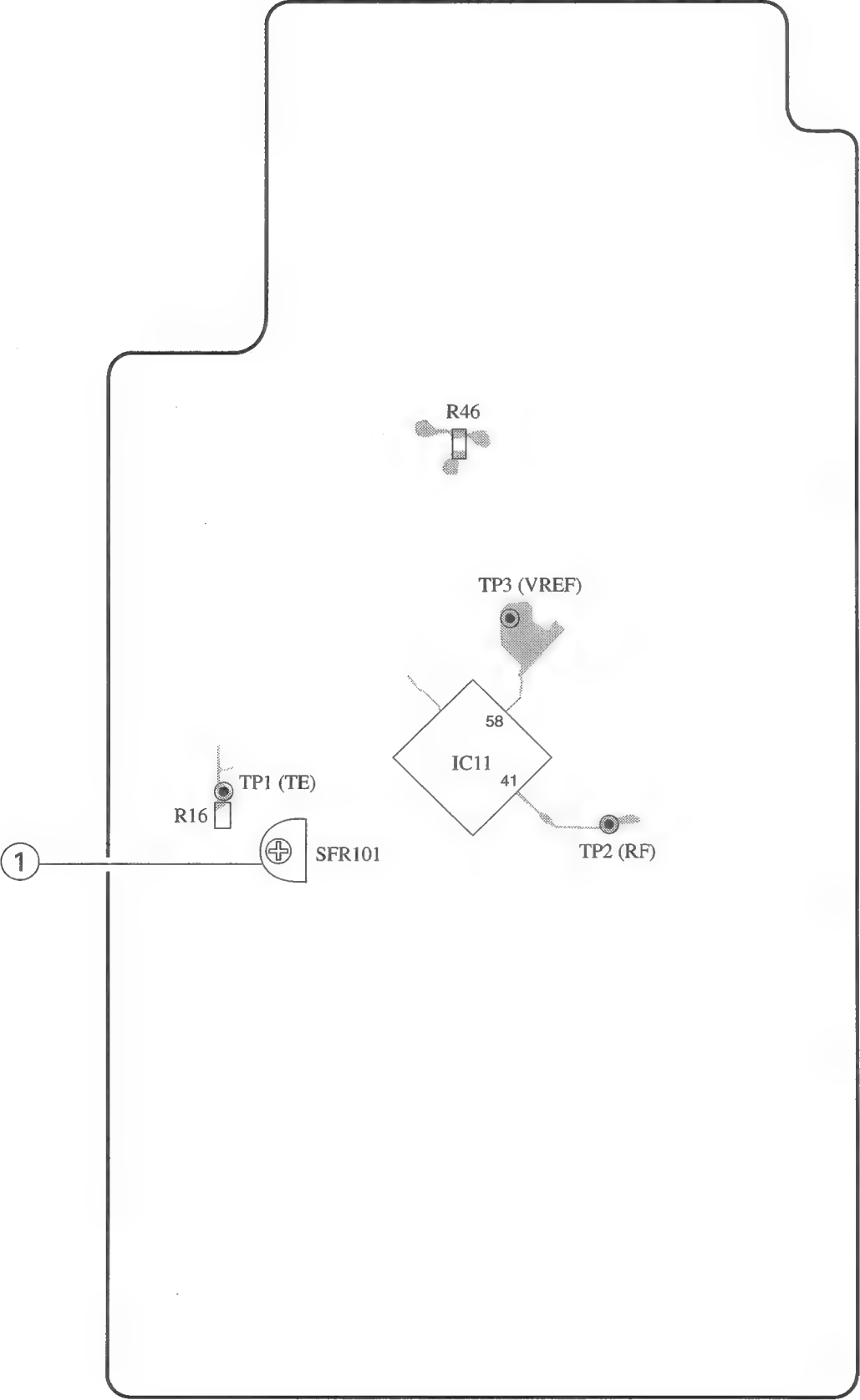
4. Operation Outline

The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

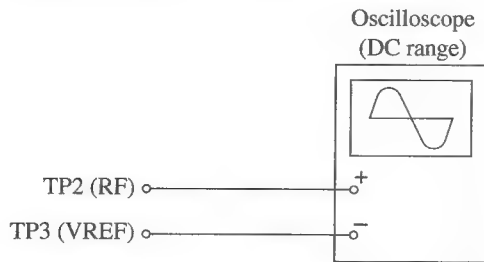
3CD C.B (PATTERN SIDE)



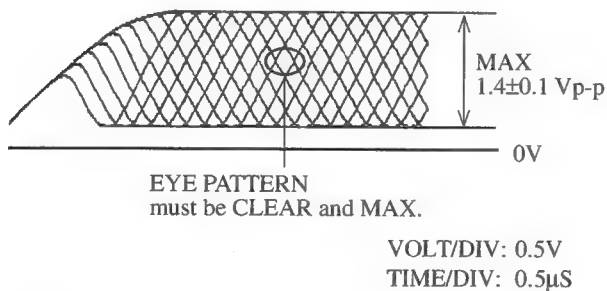
- Note:**
- Connect a probe (10: 1) of the oscilloscope test point for adjustment.
 - Connect ground (⊖) terminal of oscilloscope probe to TP3 (VREF) for all adjustment.

1. Focus Bias Adjustment

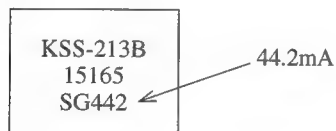
Make the focus bias adjustment when replacing and repairing the optical block.



- 1) Connect an oscilloscope to test points TP2 (RF) and TP3 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second program.
- 4) Adjust SFR101 so that RF signal of the test point TP2 (RF) is MAX and CLEARREST.

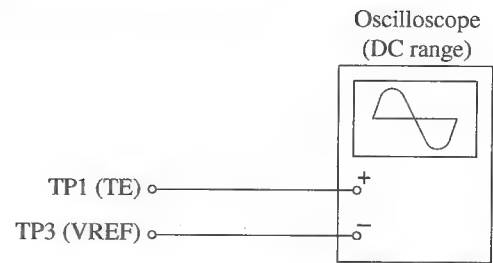


Note: The current of the laser signal can be checked with the voltages on both sides of R46 (voltage across 10Ω). The difference for the specified value shown on the label must be within ± 6.0mA.

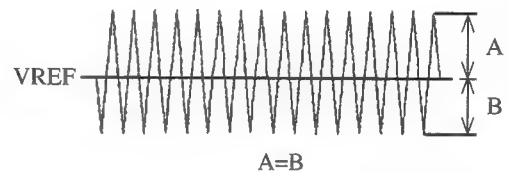


$$\text{Laser current } I_{op} = \frac{\text{Voltage across R46}}{10\Omega}$$

2. Tracking Balance Check

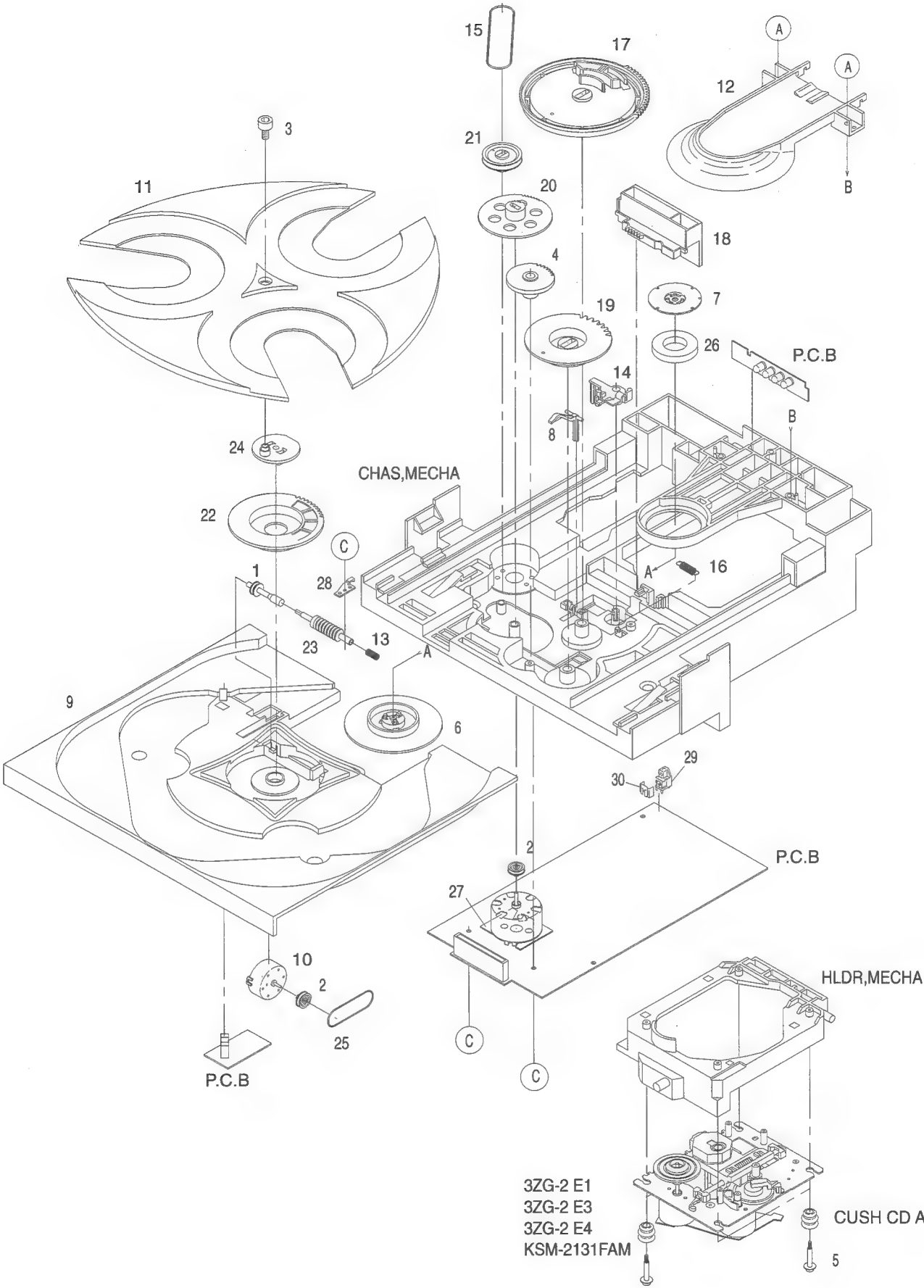


- 1) Connect an oscilloscope to test points TP1 (TE) and TP3 (VREF).
- 2) Start up the CD test mode.
- 3) Insert the test disc TCD-782 (YEDS-18) and enter the traverse mode of the CD test mode.
- 4) Confirm that the traverse waveform on an oscilloscope is vertically symmetrical as shown in the figure below.
- 5) After confirming the waveform, release the CD test mode.



VOLT/DIV: 20mV
TIME/DIV: 1mS

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1/1

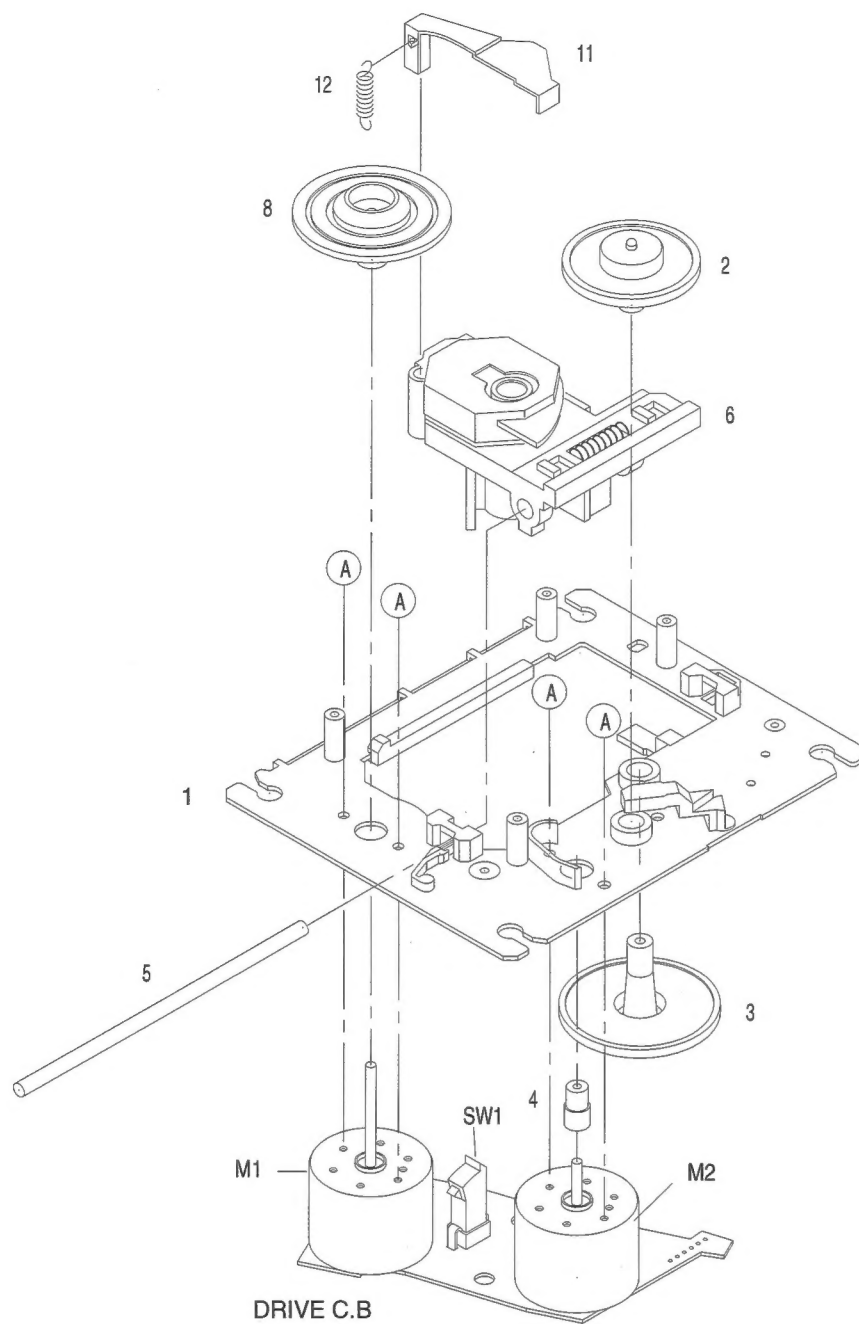
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-239-210		PULLY, WORM N	22	84-ZG1-221-010		GEAR, MAIN TT<PZ3MD>
2	84-ZG1-267-010		PULLEY, LOAD MO 8 <EXCEPT Z4RND SH, Z4RNSHMDJ, PZ3MD>	22	84-ZG1-269-010		GEAR, MAIN TT 4<EXCEPT PZ3MD>
2	81-ZG1-212-010		PULLY, LOAD MO <Z4RND SH, Z4RNSHMDJ, PZ3MD>	23	84-ZG1-238-010		GEAR, WORM N
3	81-ZG1-239-010		S-SCREW, TT	24	84-ZG1-224-010		LEVER, TT<Z3RDL SHJ, PZ3MD>
4	81-ZG1-291-110		GEAR, TRAY RELAY NO3	24	84-ZG1-288-010		LEVER, TT NAT <EXCEPT Z3RDL SHJ, PZ3MD>
5	81-ZG1-271-010		S-SCREW MECH REAR	25	84-ZG1-225-010		BELT, SQ1.0-63.3
6	84-ZG1-290-010		HLDR, MAGNET J NAT <Z4RNSHMDJ, Z3RND SHJ, Z3RNSMDJ>	26	84-ZG1-300-010		MAGNET, CLAMPER 4P <EXCEPT Z4RND SH, Z3RDL SHJ, Z4RNSHMDJ>
6	84-ZG1-295-010		HLDR, MAGNET JV<Z3RDL SHJ>	26	84-ZG1-296-010		MAGNET, CLAMPER 93ZZ<Z3RDL SHJ>
6	84-ZG1-289-010		HLDR, MAGNET NAT <Z4RND SH, Z3ND SH, Z3RNSHMDJ>	26	84-ZG1-268-010		MAGNET, CLAMPER 97 <Z4RND SH, Z4RNSHMDJ>
7	81-ZG1-229-110		PLATE, MAGNET <Z4RND SH, Z4RNSHMDJ, PZ3MD>	27	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
7	81-ZG1-255-110		PLATE, MAGNET MK2 <EXCEPT Z4RND SH, Z4RNSHMDJ, PZ3MD>	28	84-ZG1-259-010		SPR-P, WORM
8	83-ZG3-213-010		LVR, SW	29	84-ZG1-244-310		CABI, OPTICAL <EXCEPT Z4RND SH, Z4RNSHMDJ>
9	84-ZG1-003-310		TRAY, NO2-B<Z3ND SH, PZ3MD>	29	84-ZG1-276-010		CABI, OPTICAL C<Z4RND SH, Z4RNSHMDJ>
9	84-ZG1-008-210		TRAY, NO3<EXCEPT Z3ND SH, PZ3MD>	30	84-ZG1-261-010		LID, OPTICAL
10	87-045-364-010		MOTOR (BCH3B14)	31	84-ZG1-287-010		HLDR, MECHA NAT <EXCEPT Z3RDL SHJ, PZ3MD>
11	84-ZG1-005-210		TURN TABLE, NO1 (*)	32	84-ZG1-286-010		CHAS, MECHA NAT <EXCEPT Z3RDL SHJ, PZ3MD>
12	84-ZG1-011-010		REFLECTOR, CD<Z3RDL SHJ, PZ3MD>	A	87-067-703-010		TAPPING SCREW, BVT2+3-10 <Z3RDL SHJ, PZ3MD>
13	84-ZG1-248-010		SPR-C, WORM	C	87-067-981-010		BVT2+3-6 BLK
14	84-ZG1-208-210		LEVER, CAM<PZ3MD>				
14	84-ZG1-266-010		LEVER, CAN 8<EXCEPT PZ3MD>				
15	84-ZG1-209-010		BELT, SQ1.8-117.7				
16	84-ZG1-211-010		SPR-E CAM S				
17	84-ZG1-203-410		GEAR, MAIN CAM <EXCEPT Z3RDL SHJ, PZ3MD>				
17	84-ZG1-215-410		GEAR, MAIN CAM BLU<Z3RDL SHJ, PZ3MD>				
18	84-ZG1-216-310		SLIDE, MECHA CAM YEL <Z3RDL SHJ, PZ3MD>				
18	84-ZG1-204-310		SLIDER, MECHA CAM <EXCEPT Z3RDL SHJ, PZ3MD>				
19	84-ZG1-205-210		GEAR, TRAY (*)				
20	84-ZG1-206-110		GEAR, RELAY<PZ3MD>				
20	84-ZG1-274-010		GEAR, RELAY 8<EXCEPT PZ3MD>				
21	84-ZG1-207-010		PULLEY, RELAY				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E1)

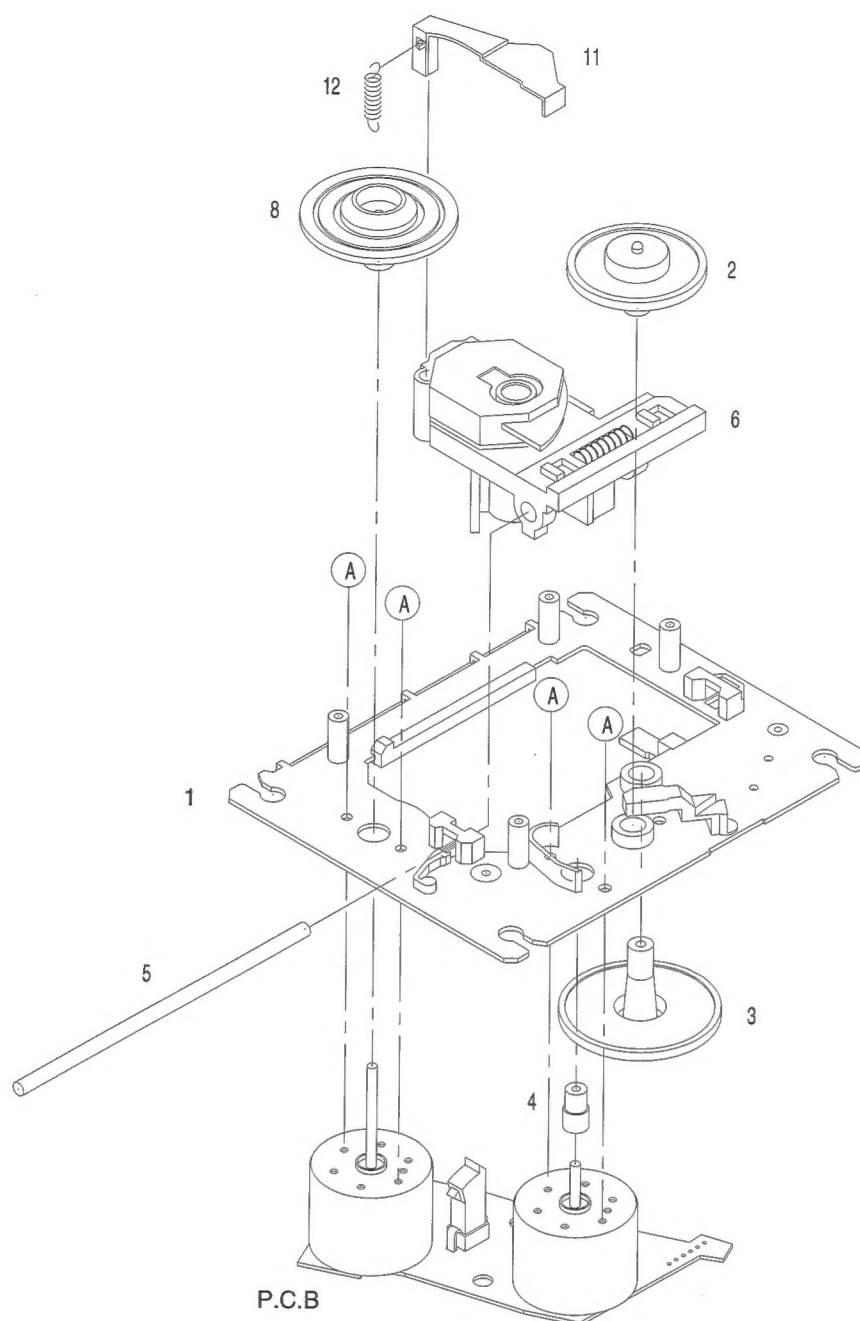


CD MECHANISM PARTS LIST 1/1 (3ZG-2 E1)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-110		CHAS ASSY, SHT
2	83-ZG2-235-010		GEAR, A3
3	83-ZG2-205-210		GEAR, B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-240-010		SHAFT, SLIDE 3
6	87-A90-836-010		PICKUP, KSS-213F
8	83-ZG2-233-010		TURN TABLE, A5
11	83-ZG2-245-110		LEVER, SHUTTER
12	83-ZG2-250-010		SPR-E, SHT 2
A	87-261-032-210		SCREW V+2-3

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E3)



CD MECHANISM PARTS LIST 1/1 (3ZG-2 E3)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-210		CHAS ASSY, SHT
2	83-ZG2-235-010		GEAR, A3
3	83-ZG2-205-210		GEAR, B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-253-010		SHAFT, SLIDE 5
6	87-A90-836-010		PICKUP, KSS-213F
8	83-ZG2-227-210		TURN TABLE, C1
11	83-ZG2-245-410		LEVER, SHUTTER
12	83-ZG2-250-110		SPR-E, SHT 2
A	87-261-032-210		SCREW V+2-3

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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